

U.S. Department of Transportation

Federal Aviation Administration





March 1, 1998 - March 7, 1998

Summary

GENERAL AVIATION, ZAC-327

You can improve Air Safety by reporting the problem when you see it!

SECTION

- I Significant Occurence Report
- **II Domestic Service Difficulty Report**
- III International Service Difficulty Report
- IV SDR Totals by District Office
- V Index By Aircraft Make and Model
- ISSUE: 98-10 VI Joint Aircraft System/Component Code Table



SDR SUMMARY

General Aviation, ZAC-327



This summary includes domestic (United States) Service Difficulty Reports (SDRs) entered into the data base for aircraft weighing 12,500 lbs. and below. It also includes reports on aeronautical products (engines, propellers, and components), and all helicopters. A separate section for International SDRs for aircraft weighing 12,500 lbs. and under has also been included. Under a data exchange agreement, International SDRs are submitted to the FAA by the Civil Aviation Authority of other countries (currently, Canada - CAN, and Australia - AUS). All reports are sorted by aircraft make, model group (basic model), and Joint Aircraft System/Component (JASC) code. Within each aircraft model group, the specific model shown may vary, but similar types of reports will be grouped together and listed in ascending order by their JASC code. Each field contains all information submitted to the FAA. Some fields are not included in order to make the summary easier to read. Additional information may be obtained by referring to the "operator control number." Send your request to the Aviation Data Systems Branch, AFS-620 at the address or phone below.

The Regulatory Support Division (AFS-600) has established a "HomePage" on the Internet through which the same information is available. There is a large quantity of other information available through the AFS-600 HomePage such as the most current SDR system codes (i.e., Joint Aircraft System\Component Codes). The SDR Question and Answer Section of the Summary will also be transferred to the AFS-600 HomePage to simplify the process of preparing the SDR Summaries in the PDF format each week. There are "hot buttons" to take you to other locations and sites where FAA Flight Standards Service Information is available. The AFS-600 "HomePage" address is:

http://www.mmac.jccbi.gov/afs/afs600

"The Service Difficulty Reports in this publication are derived from unverified information submitted by the aviation community without FAA verification for accuracy. The number of SDRs submitted is not an indication of the mechanical reliability or fitness of an airline or individual operator, and the information should not be used as such."

Comments are welcomed and may be directed to:

Federal Aviation Administration Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125-5029

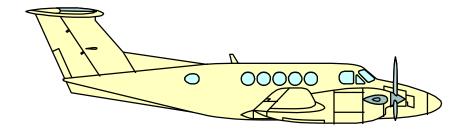
Phone: (405) 954-4171, Fax: (405) 954-4748

Your continued participation is essential and is an integral part of ensuring aviation safety. Thank you for supporting the Service Difficulty Program! If you have any questions regarding this special notice you can contact John Jackson at (405) 954-6486, or Jim Gillespie at (405) 954-1141, or Blake McDonald at (405) 954-0307 in the Aviation Systems Branch (AFS-620). Their E-mail addresses are:

john_e_jackson@mmacmail.jccbi.gov

james_gillespie@mmacmail.jccbi.gov

blake_mcdonald@mmacmail.jccbi.gov



SIGNIFICANT OCCURRENCE REPORT





THE SIGNIFICANT OCCURRENCE REPORT



The Significant Occurrence Report is a compilation all of the star bordered reports that appear in the General Aviation Service Difficulty Report (SDR) Summary, ZAC-327. The Significant Occurrence Report is used to highlight industry problem areas to field inspectors and the aviation public.

Limited analysis is performed by the Aviation Data Systems Branch, AFS-620 during the preparation of the "Significant Occurrence Report", which is generated each week and is included in the front of the Air Carrier SDR Summary. Significant Reports are hand selected by AFS-620's inspectors based on the individual merit of each report. The criteria for selection includes, but is not limited to, items that indicate high failure rates; items related to accidents or incidents; or design or maintenance failures which may affect the safe operation of the aircraft.

In some cases, this limited analysis of SDR data leads to the preparation of information bulletins which are routed to the appropriate product certification office for further investigation of the problem. The end result may be the issuance of an airworthiness directive (AD) by the Aircraft Certification Service (AIR) if warranted.

The Significant Occurrence Report (section I) of the weekly SDR Summary is not intended to be a summary of all significant events and should not be used as such. We recommend that you review further the applicable sections of the SDR summary that may be of interest.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5741	8638V	BBAVIA				BOLT	WORN	4184	2/24/98
AW4R	16275	8GCBC				AN413	AFT WING SPAR		98ZZZX919
****	OVERSIZE (APPRO	OXIMATELY .3125 INCH	I). APPARENT CAUSE	OF THIS DEFECT IS	INSUFFICIENT BEA	RING AREA OF THE FUSE	OLES IN THE FUSELAGE AT LAGE ATTACH POINTS AND COUT' HAS BEEN USED EX	INSUFFICI	ENT CLAMPING
7120	613D	BEECH				MOUNT BRACKET	CRACKED		1/12/98
	D2870	C35BEECH				35415377	AFT ENG MOUNT		98ZZZX896
****	FORWARD EDGE		MBER. TOTAL TIME	OF AIRCRAFT WAS A	A CONTRIBUTING F.		GINE, FOUND BOTH REAR MES SHOULD BE USED WHEN I		
2730	6645K	BEECH				TORQUE TUBE	CRACKED		2/6/98
EHHR	U209	C99				1156100153	ELEVATOR		98ZZZX862
****	PERTAINS TO DIS EVERY 100 HOURS	ASSEMBLY AND INSPE	ECTION OF THIS COM S AROUND THE TAPE	PONENT EACH 1,000 R PIN. TT: 1,400-1,70	HOURS. AFTER TH	IE FIRST 1,000-HOUR INSPI ΓER STATED THIS IS A \$1,4	INS EACH 100-HOUR INSP. I ECTION, OPERATOR VISUAI 400 PART WHICH COULD BE	LY INSPEC	TED THE SUPPORT
2810	5318E	CESSNA				HOSE	DETERIORATED	2556	2/11/98
	17271836	172N					FUEL VENT		98ZZZX885
****						OVERHEAD AT THE WING COMMENDED 5-10 YEAR R	ROOTS. THE HOSES WERE EPLACEMENT.	ORIGINAL,	ONE WITH A 3Q78
5400	2699D	CESSNA				WEB	CORRODED		1/12/98
DJFR	340A0787	340A				0851601202	NAC EXH TUNNEL		98ZZZX877
****		INSPECTION, FOUND I OUND IN AREA OF EXH					HE TUNNELS ON THIS AIRC	RAFT WAS	CORRODED, BUT SKIN
3500	26CB	CESSNA				REGULATOR	BURNED	616	2/4/98
HI5R	5250117	525			17627450	17227001	OXYGEN BOTTLE		98ZZZX866
****	GLOW AT REGULA		MECHANIC CLEAREI	AREA AND 2 EXPLO	OSIONS NOTED. FIR	RE BURNED HOLES IN AIR	K. DURING ATTEMPT TO T CRAFT NOSE SKIN BELOW (
7400	957SD	DOUG				RELAY SOCKET	FAILED		2/19/98
JRP2	RN011	600N				VB81KA723	ENG IGNITION		98ZZZX907
****	LINES PURGED, A ON WIRING HARN FUNCTION OF REI	TTEMPTED RESTART VIESS WOULD CAUSE R	WITHOUT SUCCESS. ELAYS TO DE-ENERG SPECTS THAT 3 RELA	FURTHER T/S LOCAT BIZE INTERMITTENTI YS ARE: FADEC STA	ΓED INOP IGNITER I LY. SEVERAL RELA ART RELAY. FADEC	FUNCTION. THIS WAS T/S AYS AFFECTED. CURRENT CIGNITION RELAY AND BA	POUNDS OF FUEL. AFTER TO INTERMITTENT IGNITE MD600 MM ARE TOO INAD ATTERY HITEMP RELAY. SI	R RELAY SO EQUATE TO	OCKET. VIBRATION DIDENTIFY THE
2752	361QS	GULSTM				ACTUATOR	BROKEN		2/10/98
CWQR	5600361	560				99123441	FLAP		98ZZZX881
****							BASE OF THE FLAP ACTUAT SSIBLE BAD BATCH OF BOL		HEAD WAS HELD

(End of GENERAL AVIATION SIGNIFICANT OCCURRENCE REPORT)

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5220	335QS	GULSTM				PANEL ASSY	MALFUNCTIONED	2416	2/16/98
CWQR	5600335	560				48191301	EMERG EXIT		98ZZZX882
****	HARD AT TOP TO M BETTER PRESSURI	MAKE IT RELEASE FRO ZATION SEAL. CAUSE	OM OPENING. DETER ED SITUATION WHER	RMINED RUBBER SEA EAS DEALING WITH	AL THAT IS GLUED T THE SEAL BECAME	TO DOOR WITH 1300L, WA A PART OF THE OPERATION	NDLE ROTATION DIFFICULTS SADHERED TO 890 THAT IS V ON TO REMOVE THE EMERG -8 INCHES OF THE LOWER PO	UTILIZED EXIT. AI	TO CREATE A LSO, INTERIOR TRIM
7810	800CP	MAULE				EXHAUST SYSTEM	CRACKED		1/1/98
	14058C	MXT7180				5327F32	ENG MUFFLER		98ZZZX891
****	CONNECTION OF E	. ,	MUFFLER. IN ADDITI	ON, CRACKING OF W	VELD SPOTS AT VAR	IOUS LOCATIONS TO INC	RATION RESULTING IN CRAC LUDE ROD CONNECTING THI		
8520	TGWOW	PIPER	LYC			CRANKSHAFT	FAILED	882	1/24/98
MSTA	61P068379633	PA60601P	IO540S1A5			LW10842	NR 2 JOURNAL	8	98ZZZX909
****	AND SAFE LANDIN		BLY OF ENGINE REVE	EALED CRANKSHAFT			ON FROM LT ENGINE. ENGIN CHEEK OF THE NR 2 ROD JOU		
3340	9290P	PIPER				WIRE HARNESS	ARCING	57	2/17/98
	4496019	PA44180					TAIL STROBE		98ZZZX918
****	BARE WIRES WHE	RE THE EXTERIOR INS	SULATION HAD BEEN	STRIPPED. THE GR.	AY INSULATION WA		PECTION OF STROBE POWER HAT CUT TOO DEEPLY AND INSULATION FURTHER.	~	
7810	61PF	PIPER				MUFFLER	FAILED	1860	2/9/98
I57S	447995187	PA44180				8629907	LT ENG AFT		98ZZZX908
****	AFT MUFFLER HAI DAMAGE, IGNITIO THE CRACK. SMAI	O CRACKED AND SPLI N HARNESS, STARTER	T CIRCUMFERENTIA CABLE, FUEL PUMP AL NEXT TO THE CRA	LLY NEAR THE LT (C , AND CHT PROBE. C ACK WERE BENT OU'	OTBD INLET.) HOT E CLOSER INSP OF MUI	XHAUST GASSES IGNITEE FFLER (PIPER P/N 86299-07,	D BEGAN TAXIING. FIRE EXT D LOWER FIBERGLASS COWL D REVEALED METAL CORROI HAVE CONTRIBUTED TO MU	ING CAU DED AND	SING FIRE/HEAT 'PAPER THIN' ADJ TO

Run Date: 12-Mar-98

FEDERAL AVIATION ADMINISTRATION SIGNIFICANT OCCURRENCE REPORT INDEX

Showing Specific Part Numbers and Aircraft Model by Year

FOR THE PERIOD OF: 3/1/98 To 3/7/98

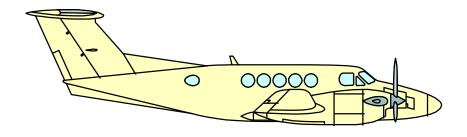
PART NUMBER		<u>-</u>						YEA	R					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
0851601202														
WEB	340A	1												1
TOTAL of # 08516012	02	1	-	-	-	-	-	-	-	-	-	-	-	1
1156100153														
TORQUE TUBE	C99	1												1
TOTAL of # 11561001	53	1	-	-	-	-	-	-	-	-	-	-	-	1
17227001														
REGULATOR	525	1												1
TOTAL of # 17227001		1	-	-	-	-	-	-	-	-	-	-	-	1
230033195														
TURBINE	unknown	1												1
TOTAL of # 23003319	5	1	-	-	-	-	-	-	-	-	-	-	-	1
3000500024														
TORQ SIGNAL COND	DHC8301	1												1
TOTAL of # 30005000	24	1	-	-	-	-	-	-	-	-	-	-	-	1
35415377														
MOUNT	D35	1	-	-	-	-	-	1	-	-	-	-	-	-
MOUNT BRACKET	C35BEECH	1	-	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 35415377	'	2						1						1
48191301 PANEL ASSY	560	1	_	_	_	_	_	_	_	_	_	_	_	1
TOTAL of # 48191301		1												1
5327F32														
EXHAUST SYSTEM	MXT7180	1												1
TOTAL of # 5327F32		1												1
8629907 MUFFLER	PA44180	1	-	-	-	-	-	-	-	-	-	-	-	1

FAA SIGNIFICANT OCCURRENCE REPORT INDEX 3/1/98 To 3/7/98 (cont'd)

PART NUMBER							YEA	ıR						
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
TOTAL of # 862990	07	1												1
99123441 ACTUATOR	560	1	-	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 99123	441	1												1
AN413 BOLT	8GCBC	1	-	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # AN413	3	1						-						1
LW10842 CRANKSHAFT	PA60601P	1												1
TOTAL of # LW10	842	1	-	-	-	-	-	-	-	-	-	-	-	1
MA45 CARBURETOR	172N	1	-	-	-	-	-	1	-	-	-	-	-	-
	182P	1	-	-	-	-	-	-	-	-	-	-	1	-
	182Q	1	-	-	-	-	-	-	-	-	-	-	1	-
	182R	1	-	-	-	-	-	-	1	-	-	-	-	-
	unknown	2										1		1
TOTAL of # MA45		6	-	-	-	-	-	1	1	-	-	1	2	1
RS2B RESISTOR	650	1												1
TOTAL of # RS2B		1	-	-	-	-	-	-	-	-	-	-	-	1
VB81KA723 RELAY SOCKET	600N	1												1
TOTAL of # VB811	KA723	1	-						<u> </u>					1
TOTAL for ALL (20) P. END OF SIGNIFICANT O	ART NUMBERS: CCURRENCE REPORT INDEX	21	-	-	-	-	-	2	1	-	-	1	2	15



DOMESTIC SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5741	8638V	BBAVIA				BOLT	WORN	4184	2/24/98
AW4R	16275	8GCBC				AN413	AFT WING SPAR		98ZZZX919
****	OVERSIZE (APPR	OXIMATELY .3125 INCH	I). APPARENT CAUS	E OF THIS DEFECT IS	INSUFFICIENT BEA	RING AREA OF THE FUSE	OLES IN THE FUSELAGE AT LAGE ATTACH POINTS AND SCOUT' HAS BEEN USED EX	INSUFFICI	ENT CLAMPING
7120	613D	BEECH				MOUNT BRACKET	CRACKED		1/12/98
	D2870	C35BEECH				35415377	AFT ENG MOUNT		98ZZZX896
****	FORWARD EDGE		MBER. TOTAL TIME	OF AIRCRAFT WAS	A CONTRIBUTING F		GINE, FOUND BOTH REAR I E SHOULD BE USED WHEN I		
2430	901AJ	BEECH				CABLE	SPLIT		2/1/98
GMNR	LJ829	C90				MS227598	STARTER/GEN		98ZZZX906
		E LEADS COMING FROM IICH COULD RESULT IN				, , , , , , , , , , , , , , , , , , ,	SPLITTING ALL ALONG TH	E LENGTH (OF WIRE EXPOSING
2730	6645K	BEECH				TORQUE TUBE	CRACKED		2/6/98
EHHR	U209	C99				1156100153	ELEVATOR		98ZZZX862
	EVERY 100 HOUR		S AROUND THE TAP	ER PIN. TT: 1,400-1,70	00 HOURS. SUBMIT	TER STATED THIS IS A \$1,	ECTION, OPERATOR VISUA 400 PART WHICH COULD BI		
2821	66381	CESSNA				FUEL STRAINER	MISMANUFACTURED		2/20/98
PF2R	15076005	150M				07560052	FUEL SYSTEM		98ZZZX932
					*		PICK-UP TUBE HAD BEEN ST RLY DURING ASSY PROCES		AN ANGLE TO BODY.
2810	5318E	CESSNA				HOSE	DETERIORATED	2556	2/11/98
	17271836	172N					FUEL VENT		98ZZZX885
*****						OVERHEAD AT THE WING COMMENDED 5-10 YEAR F	ROOTS. THE HOSES WERE REPLACEMENT.	ORIGINAL,	ONE WITH A 3Q78
2520	416ES	CESSNA				BELT	FRAYED	15	2/19/98
	18280078	182S					REAR LAP		98ZZZX884
							OLT EDGE TO WEAR AGAIN ND BELTS TO NORMAL PUL		
3211	6346A	CESSNA				GEAR SUPPORT	CRACKED	6027	11/15/97
	33146	182				05411212	MLG RT OTBD		98ZZZX888
						TION. AIRCRAFT CARRIE FTER HARD LANDINGS.	S 5 PERSONS (PER STC) DUI	RING SKYD	IVING OPERATIONS.
3211	6346A	CESSNA				GEAR SUPPORT	CRACKED	6027	11/15/97
	33146	182				05411211	MLG LT OTBD		98ZZZX887
						TION. AIRCRAFT CARRIE FTER HARD LANDINGS.	S 5 PERSONS (PER STC) DUI	RING SKYD	IVING OPERATIONS.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3211	5553B	CESSNA				GEAR SUPPORT	CRACKED	6913	11/15/97
	33553	182				05411212	RT MLG OTBD		98ZZZX892
		GEAR OUTBOARD SUPI VIOUS CHANGE OF THE					SONS (PER STC) DURING S	KYDIVING (OPERATIONS. NO
3211	5553B	CESSNA				GEAR SUPPORT	CRACKED	6913	11/15/97
	33553	182				05411211	LT MLG OTBD		98ZZZX893
		GEAR OUTBOARD SUPI TIOUS CHANGE OF THE					SONS (PER STC) DURING S	KYDIVING (OPERATIONS. NO
8120	6687B	CESSNA				TURBOCHARGER	FAILED	114	2/12/98
GNXA	21062819	T210M				4066109005	ENG EXH SYS		98ZZZX889
							MPRESSOR SHAFT AND TU IS BEING INJESTED INTO T		
5400	2699D	CESSNA				WEB	CORRODED		1/12/98
DJFR	340A0787	340A				0851601202	NAC EXH TUNNEL		98ZZZX877
****		L INSPECTION, FOUND OUND IN AREA OF EXF					HE TUNNELS ON THIS AIR	CRAFT WAS	CORRODED, BUT SKIN
3500	26CB	CESSNA				REGULATOR	BURNED	616	2/4/98
HI5R	5250117	525			17627450	17227001	OXYGEN BOTTLE		98ZZZX866
****	GLOW AT REGUL		MECHANIC CLEARE	D AREA AND 2 EXPLO	OSIONS NOTED. FIF	RE BURNED HOLES IN AIR	K. DURING ATTEMPT TO T CRAFT NOSE SKIN BELOW		,
2752	361QS	GULSTM				ACTUATOR	BROKEN		2/10/98
CWQR	5600361	560				99123441	FLAP		98ZZZX881
****							BASE OF THE FLAP ACTUA' SSIBLE BAD BATCH OF BO		HEAD WAS HELD
3010	341QS	GULSTM				LINE ASSY	CHAFE	83	2/10/98
CWQR	5600341	560				65141025	WING DEICE		98ZZZX879
		E LINES AND CLAMPS I E EXTENDED FORWARI		AGE AND WING LEAD	DING EDGE, CHAFE	FUSELAGE SKIN. SUBMIT	TER STATED SHRINK WRA	P AND THE	RMOPROTECTION
3010	341QS	GULSTM				LINE ASSY	CHAFE	83	2/10/98
CWQR	5600341	560				65141023	WING DEICE		98ZZZX880
		E LINES AND CLAMPS I E EXTENDED FORWARI		AGE AND WING LEAD	DING EDGE, CHAFE	FUSELAGE SKIN. SUBMIT	TER STATED SHRINK WRA	P AND THE	RMOPROTECTION
3610	31RC	GULSTM				COUPLING	CRACKED	3691	2/16/98
CWQR	5600023	560				S19213	BLEED AIR		98ZZZX878
	DURING ENGINE	CHANGE, FOUND BLEI	ED AIR CLAMP CRAC	KED IN RADIUS OF B	OLT GUIDE SLEEVE	E, ALMOST COMPLETELY	AROUND THE CIRCUMFER	ENCE.	
5220	335QS	GULSTM				PANEL ASSY	MALFUNCTIONED	2416	2/16/98
CWQR	5600335	560				48191301	EMERG EXIT		98ZZZX882
****	HARD AT TOP TO BETTER PRESSUR	MAKE IT RELEASE FR RIZATION SEAL. CAUS	OM OPENING. DETE ED SITUATION WHER	RMINED RUBBER SEAREAS DEALING WITH	AL THAT IS GLUED THE SEAL BECAM	TO DOOR WITH 1300L, WA E A PART OF THE OPERAT	ANDLE ROTATION DIFFIC AS ADHERED TO 890 THAT ION TO REMOVE THE EME 6-8 INCHES OF THE LOWER	IS UTILIZED RG EXIT. AI	TO CREATE A LSO, INTERIOR TRIM

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7810	800CP	MAULE				EXHAUST SYSTEM	CRACKED		1/1/98
	14058C	MXT7180				5327F32	ENG MUFFLER		98ZZZX891
****	CONNECTION OF E		MUFFLER. IN ADDITI	ON, CRACKING OF W	ELD SPOTS AT VAR	IOUS LOCATIONS TO INCI	ATION RESULTING IN CRACK LUDE ROD CONNECTING THE		
2430	9612M	MOONEY				BATTERY	POOR GROUND		2/19/98
	670189	M20F					AFT AVION TRAY		98ZZZX886
					- /	NT GPS/COMM FAILURES, HEAVY GROUND STRAP.	FOUND PAINT ON AIR FRAM	E STRU	CTURE CAUSING POOR
2434	6870F	PIPER			ELECTROSYS	ALTERNATOR	FAILED	177	2/14/98
R7LR	287790170	PA28181				4111810	DC SYSTEM		98ZZZX890
						N, FOUND 2 DIODE TABS (THAT FAILED AFTER VER	CRACKED AND ARCING DIOD! Y SHORT SERVICE LIFE.	ES OBV	IOUSLY NOT
3240		PIPER				VALVE	MALFUNCTIONED		12/23/97
	7300116	PA31P				492152	PARKING BRAKE		98ZZZX920
	SUBMITTER SUGG	ESTS PARKING BRAKI	E VALVE P/N 492152 I	S DEFECTIVE. WHEN	N HANDLE OR LEVER	R ASSY IS MOVED, IT DISE	NGAGES AND VALVE CANNO	T BE SE	T OR RESET.
3340	9290P	PIPER				WIRE HARNESS	ARCING	57	2/17/98
	4496019	PA44180					TAIL STROBE		98ZZZX918
****	BARE WIRES WHE	RE THE EXTERIOR INS	SULATION HAD BEEN	STRIPPED. THE GR	AY INSULATION WA		PECTION OF STROBE POWER S HAT CUT TOO DEEPLY AND L INSULATION FURTHER.		
7810	61PF	PIPER				MUFFLER	FAILED	1860	2/9/98
I57S	447995187	PA44180				8629907	LT ENG AFT		98ZZZX908
****	AFT MUFFLER HAI DAMAGE, IGNITIO THE CRACK. SMAI	O CRACKED AND SPLI N HARNESS, STARTER	T CIRCUMFERENTIA CABLE, FUEL PUMP AL NEXT TO THE CRA	LLY NEAR THE LT (C , AND CHT PROBE. C ACK WERE BENT OU	OTBD INLET.) HOT E	XHAUST GASSES IGNITED FFLER (PIPER P/N 86299-07)	D BEGAN TAXIING. FIRE EXTI LOWER FIBERGLASS COWLI REVEALED METAL CORROD HAVE CONTRIBUTED TO MUI	NG CAU ED AND	JSING FIRE/HEAT PAPER THIN' ADJ TO

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - AIRCRAFT)

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2312	206BY	BELL			KING	TRANSCEIVER	DEFECTIVE		2/17/98
LS1R	2871	206B3			KY196	064101900	COCKPIT	489	98ZZZX864
	TRANSCEIVER FR	REQUENCY KNOB WILL	NOT WORK. STAND	DBY SELECT SWITCH	WILL NOT WORK.				
3457	4180F	BELL				GPS	DAMAGED		2/25/98
HEEA	51469	206L3			SKYNAV 5000	0845000000	COCKPIT		HEEA0013071
	MESSAGE SWITCH	H DAMAGED. SENT TO	MAGELLAN SYSTEM	AS FOR INSPECTION A	AND REPAIR.				
6710	206BY	BELL				LINEAR ACTUATOR	FAILED		2/12/98
LS1R	2871	206B3				206062721001	ENGINE	380	98ZZZX865
	LINEAR ACTUATO	OR MOTOR WILL NOT F	RUN.						
6710		BELL				BEARING	MIS MFG		2/26/98
HEEA		206L1				206001057003	MIXING LEVER		HEEA0013106
	BEARING TURN D	OOWN AREA WHERE TH	IREADS END IS NOT	TURNED DOWN TO F	IT BELLCRANK ASS	Y. BUSHING HOLE ALSO	DOESN'T HAVE PROPER CHA	FFED ARI	EA.
7230	404W	BELL	ALLSN			SCROLL	CRACKED		1/15/98
	52055	206L4	250C30P			6896888	ENGINE COMP	1360	98ZZZX819
	DURINGSCHEDU	LED 100-HOUK INSPECT	HON DISCOVERED (OWERESSUR SURUL	L CKACKED IN ABC	JU I Z U CLUCK AKEA UF K	IGHT SHOULDER IN THE CU	KVATUKE	NEAK THE MATING
	SURFACE TO THE	COMPRESSOR. THIS W	VAS A REPAIRED SCI	ROLL THAT HAD BEE	N INSTALLED DUE	TO A PREVIOUSLY CRACK	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLL		
6220	SURFACE TO THE	COMPRESSOR. THIS W	VAS A REPAIRED SCI	ROLL THAT HAD BEE	N INSTALLED DUE	TO A PREVIOUSLY CRACK	ED SCROLL WHEN THE ENG	THAT CI	
6220 GJQR	SURFACE TO THE TIME SINCE NEW	COMPRESSOR. THIS W THE REPAIRED SCRO	VAS A REPAIRED SCI	ROLL THAT HAD BEE	N INSTALLED DUE	TO A PREVIOUSLY CRACK FAILED IN THE SAME ARE.	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLI	THAT CI	RACKED.
	SURFACE TO THE TIME SINCE NEW 98W 35100	COMPRESSOR. THIS W THE REPAIRED SCROI BELL	VAS A REPAIRED SCI LL ACCRUED 1,359.6	ROLL THAT HAD BEE HOURS TIME SINCE	N INSTALLED DUE	TO A PREVIOUSLY CRACK FAILED IN THE SAME ARE. DAMPER ASSY	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLI LEAKING	THAT CI	2/26/98
	SURFACE TO THE TIME SINCE NEW 98W 35100	COMPRESSOR. THIS W THE REPAIRED SCROI BELL 212	VAS A REPAIRED SCI LL ACCRUED 1,359.6	ROLL THAT HAD BEE HOURS TIME SINCE	N INSTALLED DUE	TO A PREVIOUSLY CRACK FAILED IN THE SAME ARE. DAMPER ASSY	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLI LEAKING	THAT CI	2/26/98
GJQR	SURFACE TO THE TIME SINCE NEW 98W 35100 DAMPER ASSY EX	COMPRESSOR. THIS W THE REPAIRED SCROI BELL 212 KCESSIVE LEAKAGE. RE	VAS A REPAIRED SCI LL ACCRUED 1,359.6	ROLL THAT HAD BEE HOURS TIME SINCE	N INSTALLED DUE	TO A PREVIOUSLY CRACK FAILED IN THE SAME ARE. DAMPER ASSY 204010937009	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLI LEAKING M/R	THAT CF	ACKED. 2/26/98 HAIGJQR0171
GJQR 6220	SURFACE TO THE TIME SINCE NEW. 98W 35100 DAMPER ASSY EX 98W 35100	COMPRESSOR. THIS W THE REPAIRED SCROI BELL 212 KCESSIVE LEAKAGE. RE BELL	VAS A REPAIRED SCI LL ACCRUED 1,359.6 EPLACED DAMPER FI	ROLL THAT HAD BEE HOURS TIME SINCE: ROM CSF STOCK -	N INSTALLED DUE	TO A PREVIOUSLY CRACK FAILED IN THE SAME ARE. DAMPER ASSY 204010937009 DAMPER ASSY	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLI LEAKING M/R LEAKING	THAT CF	2/26/98 HAIGJQR0171 2/26/98
GJQR 6220	SURFACE TO THE TIME SINCE NEW. 98W 35100 DAMPER ASSY EX 98W 35100	E COMPRESSOR. THIS W THE REPAIRED SCROI BELL 212 KCESSIVE LEAKAGE. RE BELL 212	VAS A REPAIRED SCI LL ACCRUED 1,359.6 EPLACED DAMPER FI	ROLL THAT HAD BEE HOURS TIME SINCE: ROM CSF STOCK -	N INSTALLED DUE	TO A PREVIOUSLY CRACK FAILED IN THE SAME ARE. DAMPER ASSY 204010937009 DAMPER ASSY	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLI LEAKING M/R LEAKING	THAT CF	2/26/98 HAIGJQR0171 2/26/98
GJQR 6220 GJQR	SURFACE TO THE TIME SINCE NEW 98W 35100 DAMPER ASSY EX 98W 35100 DAMPER HAS EXC	E COMPRESSOR. THIS W THE REPAIRED SCROI BELL 212 KCESSIVE LEAKAGE. RE BELL 212 CESSIVE LEAKAGE. REF	VAS A REPAIRED SCI LL ACCRUED 1,359.6 EPLACED DAMPER FI	ROLL THAT HAD BEE HOURS TIME SINCE: ROM CSF STOCK -	N INSTALLED DUE	TO A PREVIOUSLY CRACK FAILED IN THE SAME ARE. DAMPER ASSY 204010937009 DAMPER ASSY 204010937009	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLI LEAKING M/R LEAKING M/R	538 538	2/26/98 HAIGJQR0171 2/26/98 HAIGJQR0170
GJQR 6220 GJQR 6310	SURFACE TO THE TIME SINCE NEW. 98W 35100 DAMPER ASSY EX 98W 35100 DAMPER HAS EXC 219HM 47573	E COMPRESSOR. THIS W THE REPAIRED SCROI BELL 212 KCESSIVE LEAKAGE. RE BELL 212 CESSIVE LEAKAGE. REF BELL	VAS A REPAIRED SCI LL ACCRUED 1,359.6 EPLACED DAMPER FI PLACED DAMPER FR	ROLL THAT HAD BEE HOURS TIME SINCE: ROM CSF STOCK - OM CSF STOCK -	N INSTALLED DUE REPAIR BEFORE IT I	TO A PREVIOUSLY CRACK FAILED IN THE SAME ARE. DAMPER ASSY 204010937009 DAMPER ASSY 204010937009 COUPLING 222044672101	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLI LEAKING M/R LEAKING M/R	538 538	2/26/98 HAIGJQR0171 2/26/98 HAIGJQR0170
GJQR 6220 GJQR 6310	SURFACE TO THE TIME SINCE NEW. 98W 35100 DAMPER ASSY EX 98W 35100 DAMPER HAS EXC 219HM 47573	E COMPRESSOR. THIS W. THE REPAIRED SCROID BELL 212 KCESSIVE LEAKAGE. RE BELL 212 CESSIVE LEAKAGE. REF BELL 222U	VAS A REPAIRED SCI LL ACCRUED 1,359.6 EPLACED DAMPER FI PLACED DAMPER FR	ROLL THAT HAD BEE HOURS TIME SINCE: ROM CSF STOCK - OM CSF STOCK -	N INSTALLED DUE REPAIR BEFORE IT I	TO A PREVIOUSLY CRACK FAILED IN THE SAME ARE. DAMPER ASSY 204010937009 DAMPER ASSY 204010937009 COUPLING 222044672101	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLI LEAKING M/R LEAKING M/R	538 538	2/26/98 HAIGJQR0171 2/26/98 HAIGJQR0170
GJQR 6220 GJQR 6310 TI1R	SURFACE TO THE TIME SINCE NEW. 98W 35100 DAMPER ASSY EX. 98W 35100 DAMPER HAS EX. 219HM 47573 OUTER COUPLING	E COMPRESSOR. THIS W. THE REPAIRED SCROID BELL 212 KCESSIVE LEAKAGE. RE BELL 212 CESSIVE LEAKAGE. REI BELL 222U G HAS CORROSION ON I	VAS A REPAIRED SCI LL ACCRUED 1,359.6 EPLACED DAMPER FI PLACED DAMPER FR	ROLL THAT HAD BEE HOURS TIME SINCE: ROM CSF STOCK - OM CSF STOCK -	N INSTALLED DUE REPAIR BEFORE IT I	TO A PREVIOUSLY CRACK FAILED IN THE SAME ARE. DAMPER ASSY 204010937009 DAMPER ASSY 204010937009 COUPLING 222044672101 VED AND REPLACED.	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLI LEAKING M/R LEAKING M/R CORRODED DRIVE	538 538 426	2/26/98 HAIGJQR0171 2/26/98 HAIGJQR0170 12/16/97 98ZZZX941
GJQR 6220 GJQR 6310 TI1R	SURFACE TO THE TIME SINCE NEW. 98W 35100 DAMPER ASSY EX 98W 35100 DAMPER HAS EXC 219HM 47573 OUTER COUPLING 219HM 47573	E COMPRESSOR. THIS W. THE REPAIRED SCROID BELL 212 KCESSIVE LEAKAGE. RE BELL 212 CESSIVE LEAKAGE. REF BELL 222U G HAS CORROSION ON E BELL	VAS A REPAIRED SCI LL ACCRUED 1,359.6 EPLACED DAMPER FI PLACED DAMPER FROM	ROLL THAT HAD BEE HOURS TIME SINCE: ROM CSF STOCK - OM CSF STOCK -	N INSTALLED DUE REPAIR BEFORE IT I	TO A PREVIOUSLY CRACK FAILED IN THE SAME ARE. DAMPER ASSY 204010937009 DAMPER ASSY 204010937009 COUPLING 222044672101 VED AND REPLACED. COUPLING 222044672101	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLI LEAKING M/R LEAKING M/R CORRODED DRIVE	538 538 426	2/26/98 HAIGJQR0171 2/26/98 HAIGJQR0170 12/16/97 98ZZZX941
GJQR 6220 GJQR 6310 TI1R	SURFACE TO THE TIME SINCE NEW. 98W 35100 DAMPER ASSY EX 98W 35100 DAMPER HAS EXC 219HM 47573 OUTER COUPLING 219HM 47573	E COMPRESSOR. THIS W. THE REPAIRED SCROID BELL 212 KCESSIVE LEAKAGE. RE BELL 212 CESSIVE LEAKAGE. REF BELL 222U G HAS CORROSION ON DEBELL 222U	VAS A REPAIRED SCI LL ACCRUED 1,359.6 EPLACED DAMPER FI PLACED DAMPER FROM	ROLL THAT HAD BEE HOURS TIME SINCE: ROM CSF STOCK - OM CSF STOCK -	N INSTALLED DUE REPAIR BEFORE IT I	TO A PREVIOUSLY CRACK FAILED IN THE SAME ARE. DAMPER ASSY 204010937009 DAMPER ASSY 204010937009 COUPLING 222044672101 VED AND REPLACED. COUPLING 222044672101	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLI LEAKING M/R LEAKING M/R CORRODED DRIVE	538 538 426	2/26/98 HAIGJQR0171 2/26/98 HAIGJQR0170 12/16/97 98ZZZX941
GJQR 6220 GJQR 6310 TI1R 6310 TI1R	SURFACE TO THE TIME SINCE NEW. 98W 35100 DAMPER ASSY EX 98W 35100 DAMPER HAS EXC 219HM 47573 OUTER COUPLING 219HM 47573 OUTER COUPLING	E COMPRESSOR. THIS W. THE REPAIRED SCROID BELL 212 CCESSIVE LEAKAGE. REPAIRED BELL 212 CESSIVE LEAKAGE. REPAIRED BELL 222U G HAS CORROSION ON DEBLL 222U G HAS CORROSION ON DEBLL 222U	VAS A REPAIRED SCI LL ACCRUED 1,359.6 EPLACED DAMPER FI PLACED DAMPER FROM	ROLL THAT HAD BEE HOURS TIME SINCE: ROM CSF STOCK - OM CSF STOCK -	N INSTALLED DUE REPAIR BEFORE IT I	TO A PREVIOUSLY CRACK FAILED IN THE SAME ARE. DAMPER ASSY 204010937009 DAMPER ASSY 204010937009 COUPLING 222044672101 VED AND REPLACED. COUPLING 222044672101 VED AND REPLACED.	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLI LEAKING M/R LEAKING M/R CORRODED DRIVE CORRODED DRIVE	538 538 426	2/26/98 HAIGJQR0171 2/26/98 HAIGJQR0170 12/16/97 98ZZZX941 12/16/97 98ZZZX940
GJQR 6220 GJQR 6310 TI1R 6310 TI1R	SURFACE TO THE TIME SINCE NEW. 98W 35100 DAMPER ASSY EX 98W 35100 DAMPER HAS EXC 219HM 47573 OUTER COUPLING 4UV 23019	E COMPRESSOR. THIS W. THE REPAIRED SCROID BELL 212 KCESSIVE LEAKAGE. REBELL 212 CESSIVE LEAKAGE. REBELL 222U G HAS CORROSION ON BELL 222U G HAS CORROSION ON BELL 222U G HAS CORROSION ON BELL	VAS A REPAIRED SCI LL ACCRUED 1,359.6 EPLACED DAMPER FI PLACED DAMPER FRI INTERNAL SPLINES. INTERNAL SPLINES,	ROLL THAT HAD BEE HOURS TIME SINCE: ROM CSF STOCK - OM CSF STOCK - LESS THAN 1 YEAR LESS THAN 1 YEAR	N INSTALLED DUE REPAIR BEFORE IT I	TO A PREVIOUSLY CRACK FAILED IN THE SAME ARE. DAMPER ASSY 204010937009 DAMPER ASSY 204010937009 COUPLING 222044672101 VED AND REPLACED. COUPLING 222044672101 VED AND REPLACED. SHUNT	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLI LEAKING M/R LEAKING M/R CORRODED DRIVE CORRODED DRIVE BURNT	538 538 426	2/26/98 HAIGJQR0171 2/26/98 HAIGJQR0170 12/16/97 98ZZZX941 12/16/97 98ZZZX940
GJQR 6220 GJQR 6310 TI1R 6310 TI1R	SURFACE TO THE TIME SINCE NEW. 98W 35100 DAMPER ASSY EX 98W 35100 DAMPER HAS EXC 219HM 47573 OUTER COUPLING 4UV 23019	E COMPRESSOR. THIS W. THE REPAIRED SCROID BELL 212 KCESSIVE LEAKAGE. REPAIRED SCROID BELL 212 CESSIVE LEAKAGE. REPAIRED BELL 222U G HAS CORROSION ON DEBLL 222U G HAS CORROSION ON DEBLL 230	VAS A REPAIRED SCI LL ACCRUED 1,359.6 EPLACED DAMPER FI PLACED DAMPER FRI INTERNAL SPLINES. INTERNAL SPLINES,	ROLL THAT HAD BEE HOURS TIME SINCE: ROM CSF STOCK - OM CSF STOCK - LESS THAN 1 YEAR LESS THAN 1 YEAR	N INSTALLED DUE REPAIR BEFORE IT I	TO A PREVIOUSLY CRACK FAILED IN THE SAME ARE. DAMPER ASSY 204010937009 DAMPER ASSY 204010937009 COUPLING 222044672101 VED AND REPLACED. COUPLING 222044672101 VED AND REPLACED. SHUNT	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLI LEAKING M/R LEAKING M/R CORRODED DRIVE CORRODED DRIVE BURNT	538 538 426	2/26/98 HAIGJQR0171 2/26/98 HAIGJQR0170 12/16/97 98ZZZX941 12/16/97 98ZZZX940
6220 GJQR 6310 TI1R 6310 TI1R 2430 TI1R	SURFACE TO THE TIME SINCE NEW. 98W 35100 DAMPER ASSY EX 98W 35100 DAMPER HAS EXC 219HM 47573 OUTER COUPLING 4UV 23019 GENERATOR SYS	E COMPRESSOR. THIS W. THE REPAIRED SCROID BELL 212 KCESSIVE LEAKAGE. REBELL 212 CESSIVE LEAKAGE. REBELL 222U G HAS CORROSION ON BELL 222U G HAS CORROSION ON BELL 2210 G HAS CORROSION ON BELL 2210 G HAS CORROSION ON BELL 230 TEM SHUNT DISCOLOR	VAS A REPAIRED SCI LL ACCRUED 1,359.6 EPLACED DAMPER FI PLACED DAMPER FRI INTERNAL SPLINES. INTERNAL SPLINES,	ROLL THAT HAD BEE HOURS TIME SINCE: ROM CSF STOCK - OM CSF STOCK - LESS THAN 1 YEAR LESS THAN 1 YEAR	N INSTALLED DUE REPAIR BEFORE IT I	TO A PREVIOUSLY CRACK FAILED IN THE SAME ARE. DAMPER ASSY 204010937009 DAMPER ASSY 204010937009 COUPLING 222044672101 VED AND REPLACED. COUPLING 222044672101 VED AND REPLACED. SHUNT 1820300150	ED SCROLL WHEN THE ENG A AS THE PREVIOUS SCROLI LEAKING M/R LEAKING M/R CORRODED DRIVE CORRODED DRIVE BURNT GENERATOR SYSTEM	538 538 426	2/26/98 HAIGJQR0171 2/26/98 HAIGJQR0170 12/16/97 98ZZZX941 12/16/97 98ZZZX940 1/19/98 98ZZZX943

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3424	4UV	BELL				INDICATOR	FAILED	1436	1/7/98
TI1R	23019	230				222375072105	TURN GYRO		98ZZZX945
	TURN INDICATOR	INOPERATIVE. GYRO	WILL NOT SPIN UP.	REMOVED AND REP	LACED.				
5260	3893L	BELL				ACTUATOR	INOPERATIVE	383	2/25/98
HEEA	33006	412				212075418105	STEP		HEEA0013068
	STEP ACTUATOR	INOPERATIVE.							
6220	3893N	BELL				BEARING	WORN	570	2/25/98
HEEA	33010	412				412010182101	M/R		HEEA0013069
		RACE SHOULDER WOR ONTACTING THE PITC		•		.5 WHICH WAS CAUSED B SENT.	BY THE LACK OF THREAD	S ON THIS NU	JT OR WASHER P/N
6220	3893N	BELL				BEARING	WORN	864	2/25/98
HEEA	33010	412				412010182101	M/R		HEEA0013070
		RACE SHOULDER WOR ONTACTING THE PITC				.5 WHICH WAS CAUSED B SENT.	BY THE LACK OF THREAD	S ON THIS NU	JT OR WASHER P/N
2211	117NG	BOLKMS				COMPUTER	FAILED	130	1/16/98
TI1R	7083	BK117A4				11788292	SPAS		98ZZZX938
	SPAS COMPUTER	WILL NOT PASS COLLE	ECTIVE TRANSDUCE	R TEST. REMOVED A	ND REPLACED.				
2430		BOLKMS				TOGGLE SWITCH	FAILED		11/11/97
TI1R		BK117B1				SP461300	DC SYSTEM		98ZZZX913
	SWITCH SPRING V	VEAK. REMOVED AND	REPLACED.						
2432	117CH	BOLKMS				BATTERY	FAILED	198	1/19/98
TI1R	7061	BK117A3				RG390E	DC SYSTEM		98ZZZX949
	BATTERY WEAK,	SLOW STARTS, WILL N	OT TOP CHARGE AF	TER 4 HOURS. GREE	N LIGHT WOULD N	OT COME ON. REMOVED	AND REPLACED.		
2810	1140H	BOLKMS				DRAIN VALVE	LEAKING		11/18/97
TI1R	7078	BK117A3				1176416901	FUEL TANK		98ZZZX947
	FUEL TANK HAS S	STATIC LEAK AT DRAIN	VALVE. REMOVED	AND REPLACED.					
3446	4493X	BOLKMS				STORMSCOPE	FAILED		1/14/98
TI1R	S7038	BK117A3			WX95	80510950001	COCKPIT		98ZZZX946
	STORMSCOPE UN	IT NOT RECEIVING INP	UT. REMOVED AND	REPLACED.					
3446	117NG	BOLKMS				DISPLAY	FAILED		1/15/98
TI1R	7083	BK117A4				78806059008	STORMSCOPE		98ZZZX939
	STORMSCOPE DIS	PLAY INOPERATIVE. I	FAILED APPROXIMAT	TELY 1 MONTH AFTE	R INSTALLATION.	REMOVED AND REPLACE	ED.		
3454	117M	BOLKMS				INDICATOR	FAILED		1/29/98
TI1R	S7023	BK117A1				3137LB63B	COCKPIT RMI		98ZZZX950
	RMI INDICATOR 'C	OFF' FLAG WILL NOT S	TOW. REMOVED AN	D REPLACED.					
6520		BOLKMS				BEARING	DEFECTIVE		1/5/98
TI1R		BK117A3				4639311003	T/R GEARBOX		98ZZZX911
	OUTPUT SHAFT W	OULD NOT FIT THROU	GH ROLLERS WHEN	BEARING WAS INST	ALLED IN COVER C	F T/R GEARBOX. REMOV	ED AND REPLACED.		

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6520	912TG	BOLKMS				GEARBOX	CRACKED	5594	1/12/98
BAQR	7174	BK117B1				4639003001	T/R		98ZZZX863
	DURING PRE-FLIC	HT INSPECTION, A CR.	ACK IN THE TAIL RO	TOR GEARBOX HOU	SING WAS FOUND I	N THE AREA OF THE MOU	NTING STUDS.		
8000	1140H	BOLKMS				SWITCH	INTERMITTENT		1/7/98
TI1R	7078	BK117A3				151PS01A6A	START SYSTEM		98ZZZX948
	SWITCH ONLY MA	AKING CONTACT INTE	RMITTENTLY. DEFE	CTIVE UPON INSTAL	LATION. REMOVEI	D AND REPLACED.			
2140	117NC	BOLKMS				CONTROL UNIT	FAILED		12/28/97
TI1R	7509	BK117C1				11798439	HEATER		98ZZZX951
	HEATER OVERHE	ATED. REMOVED AND	REPLACED.						
3610	117NC	BOLKMS				VALVE	STICKS		12/18/97
TI1R	7509	BK117C1				HTC200016	BLEED SYSTEM		98ZZZX953
	VALVE STICKS W	HEN SELECTING HEAT	. REMOVED AND RE	EPLACED.					
3610	117NC	BOLKMS				VALVE	FAILED		12/29/97
TI1R	7509	BK117C1				HTE200016	BLEED SYSTEM		98ZZZX952
	BLEED VALVE DO	ES NOT OPERATE. RE	MOVED AND REPLA	CED.					
6320		BOLKMS				BEVEL GEAR	DEFECTIVE		1/6/98
TI1R		BK117C1				4639311042	T/R GEARBOX		98ZZZX914
	GEAR WOULD NO	T GET A CONTACT PA	TTERN WITHIN ACC	EPTABLE LIMITS WH	EN MATED TO BEV	EL. GEARSHAFT P/N 46393	11043, S/N 797. REMOVED	AND REPLA	CED.
6410	317MC	BOLKMS				BLADE	DEBONDED		12/16/97
TI1R	7505	BK117C1				117317411	T/R		98ZZZX942
	T/R BLADE DEBO	NDED. REMOVED AND	REPLACED.						
6520		BOLKMS				BEVEL GEAR SHAFT	DEFECTIVE		1/6/98
TI1R		BK117C1				4639311043	T/R GEARBOX		98ZZZX915
	GEAR COULD NO	Γ GET A CONTACT PAT	TERN WITHIN ACCE	EPTABLE LIMITS WHI	EN MATCHED TO BI	EVEL. GEAR SHAFT P/N 463	39311042, S/N 978. REMO	VED AND RE	PLACED.
6520		BOLKMS				BEARING	ROUGH		1/5/98
TI1R		BK117C1				4639310012	T/R GEARBOX		98ZZZX912
	BEARING WAS RO	UGH WHEN INSTALLE	D ON BEVEL GEAR S	SHAFT. REMOVED A	ND REPLACED.				
6520		BOLKMS				BEARING	ROUGH		1/5/98
TI1R		BK117C1				4639306006	T/R GEARBOX		98ZZZX910
	BEARING WAS RO	UGH WHEN INSTALLE	D ON LEVER GEAR S	SHAFT. REMOVED A	ND REPLACED.				
7400	957SD	DOUG				RELAY SOCKET	FAILED		2/19/98
JRP2	RN011	600N				VB81KA723	ENG IGNITION		98ZZZX907
****	LINES PURGED, A ON WIRING HARN FUNCTION OF REI	TTEMPTED RESTART V IESS WOULD CAUSE RI	VITHOUT SUCCESS. ELAYS TO DE-ENERO SPECTS THAT 3 RELA	FURTHER T/S LOCAT GIZE INTERMITTENTI AYS ARE: FADEC STA	ΓΕD INOP IGNITER I LY. SEVERAL RELA ART RELAY. FADEC	ES INDICATED APPROX 70 FUNCTION. THIS WAS T/S 1 AYS AFFECTED. CURRENT CIGNITION RELAY AND BA HRS.	ΓΟ INTERMITTENT IGNIT MD600 MM ARE TOO INA	TER RELAY S ADEQUATE T	OCKET. VIBRATION O IDENTIFY THE

DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS	(cont'd)

DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS (cont'd) 3/1/98 To 3/7/98 ISSUE: 98												
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO			
7321	991SD	HUGHES	ALLSN		BENDIX	BELLOWS	DEFECT		2/19/98			
	0500E	369E	250C20B		23057344	2537688	FUEL CONTROL		98ZZZX922			
	FUEL CONTROL D	EFECT. UNABLE TO G	ET MAXIMUM SPEED	; FOUND DURING TI	ESTING. GOVERNOR	R SETTING 75 RPM, LOW E	ELOW MINIMUM.					
7321	992SD	HUGHES	ALLSN		BENDIX	FUEL CONTROL	MALFUNCTIONED	1075	2/19/98			
	510E	369E	250C20B			23057344	ENGINE		98ZZZX921			
	HOT START ON FIRST START OF DAY ONLY. FOUND DURING A RECEIVED TEST. FIRST 2 TEST POINTS FOUND RICH CAUSED BY LEAKING START-DERICH BELLOWS. REPLACED BELLOWS AND RETESTED.											

 $\underline{(\mathsf{End}\ \mathsf{of}\ \mathsf{DOMESTIC}\ \mathsf{SERVICE}\ \mathsf{DIFFICULTY}\ \mathsf{REPORT}\ \mathsf{SUMMARY}\ \mathsf{-}\ \mathsf{HELICOPTERS})}$

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7421		AMTRDF	ROTAX			SPARK PLUG	FAILED		11/27/97
	1	KITFOX	ROTAX532				ENGINE		98ZZZX898
	APPROXIMATELY ENGINE. THE FRO	25 HOURS, A ROUTINE	E INSPECTION CAUSE SEST TO THE GEAR I	ED BOTH SPARK PLU	GS TO BE REMOVE	R-RECOMMENDED SPARK D. THERE IS ONLY ONE SI ROKEN - THE METAL ELEC	PARK PLUG PER CYLINDE	R AND TWO	CYLINDERS PER
8530	2043X	BEECH	CONT			CYLINDER	CRACKED	1185	1/29/97
ES4R	E1387	A36	IO550B			65344A6	NR 5		98ZZZX875
		IAD CRACK AT UPPER S ERAL MAINTENANCE F				97-3, AND PROPER MAIN	TENANCE DURING ITS LIF	E. BAFFLING	G, FUEL SYSTEM
7230	404W	BELL	ALLSN			SCROLL	CRACKED		1/15/98
	52055	206L4	250C30P			6896888	ENGINE COMP	1360	98ZZZX819
	SURFACE TO THE	COMPRESSOR. THIS V	VAS A REPAIRED SCI	ROLL THAT HAD BEE	EN INSTALLED DUE	OUT 2 O'CLOCK AREA OF I TO A PREVIOUSLY CRAC FAILED IN THE SAME ARI	KED SCROLL WHEN THE I	ENGINE ONL'	Y HAD 712.3 HOURS
8530	73463	CESSNA	CONT			CYLINDER	CRACKED		1/29/97
ES4R	20700593	207A	IO550*			653447A1	NR 1		98ZZZX895
		IAD CRACK AT UPPER S AVE BEEN CAREFULL			AD C/W SID 97-2, SIE	97-3, AND PROPER MAIN	TENANCE. BAFFLING, FUE	EL SYSTEM SI	ET-UP AND GENERAL
8530	73463	CESSNA	CONT			CYLINDER	CRACKED	1076	1/29/97
ES4R	20700593	207A	IO550*			653447A	NR 4		98ZZZX894
		IAD CRACK AT UPPER S AVE BEEN CAREFULL			AD C/W SID 97-2, SIE	97-3, AND PROPER MAIN	ΓENANCE. BAFFLING, FUE	EL SYSTEM SI	ET-UP, AND GENERAL
8550	132CM	CESSNA	CONT			PUMP	FAILED	955	2/5/98
EHHR	33701817	337H	IO360G				ENGINE OIL		98ZZZX874
		- ,				LOSING POWER. OIL PRENGINE DETERMINED THE		ND THE PRO	PELLER WENT INTO
8520	3959G	CESSNA	CONT			CRANKCASE	BROKEN	2646	2/6/98
NT2R	340A0243	340A	TSIO520N				RT SIDE	1291	98ZZZX883
		KE AT UPPER REAR BE NTERNAL FAILURE. TH				CRANKCASE PARTING SU FR OVERHAUL.	RFACE. NO CRANKCASE	PARTS WERE	E MISSING, BUT IT
7240	232DM	CESSNA	PWA			HOUSING ASSY	FAILED		2/17/97
IMJA	5500079	550	JT15D4			310501601	COMB LINER	3156	98ZZZX857
	THE SPACE SURR		STION CHAMBER. S	USPECT THE HOUSIN		USTION CHAMBER LINER REE FROM THE COMBUST		,	
7321	991SD	HUGHES	ALLSN		BENDIX	BELLOWS	DEFECT		2/19/98
	0500E	369E	250C20B		23057344	2537688	FUEL CONTROL		98ZZZX922
	FUEL CONTROL D	DEFECT. UNABLE TO G	ET MAXIMUM SPEEI); FOUND DURING TI	ESTING. GOVERNO	R SETTING 75 RPM, LOW I	BELOW MINIMUM.		

DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - ENGINE	ES (- ENGINES	Υ -	ARY	MA	SUM)RT	REP	TY		DIFFI	VICE.	SFR	OMESTIC	
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DOMEST	IC SERVICE DIFF	ICULTY REPORT	SUMMARY - ENG	GINES (cont'd)			<u>3/1/98 To 3</u>	7/98 ISS	SUE: 98-10 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7321	992SD	HUGHES	ALLSN		BENDIX	FUEL CONTROL	MALFUNCTIONED	1075	2/19/98
	510E	369E	250C20B			23057344	ENGINE		98ZZZX921
	HOT START ON FII BELLOWS AND RE		NLY. FOUND DURING	G A RECEIVED TEST.	FIRST 2 TEST POIN	TS FOUND RICH CAUSED	BY LEAKING START-DERIC	H BELLOW	S. REPLACED
8520	TGWOW	PIPER	LYC			CRANKSHAFT	FAILED	882	1/24/98
MSTA	61P068379633	PA60601P	IO540S1A5			LW10842	NR 2 JOURNAL	8	98ZZZX909
****	AND SAFE LANDIN		BLY OF ENGINE REVI	EALED CRANKSHAF			ION FROM LT ENGINE. ENC CHEEK OF THE NR 2 ROD J		
8520	56WB	PIPER	LYC			CRANKSHAFT	CRACKED	9	2/10/98
	284470	PA28180	O360A3A			77037	NR 5 JOURNAL		98ZZZX916
						*). CRANKSHAFT WAS PROC 5 JOURNAL RADIUS APPROX		
8520	15008	PIPER	LYC			CRANKSHAFT	CRACKED		2/10/98
	347250346	PA34200	LIO360C1E6			LW17577	JOURNAL	220	98ZZZX923
	PART REMOVED F	OR MPI, AS A PRECAU	TION. THIS CRANKS	HAFT WAS RE-WORI	KED BY AIR AGENCY	Y AND WAS FOUND TO HA	AVE CRACKS IN THE JOURN	AL RADII.	
7314	102PA	PIPER	LYC			PUMP	LEAKING	152	5/11/97
	4636068	PA46350P	TIO540AE2A			LW13909	ENGINE FUEL		98ZZZX917

ENGINE WILL NOT SHUT DOWN WITH MIXTURE CONTROL. FOUND FUEL PUMP LEAKING INTO UPPER DECK LINE.

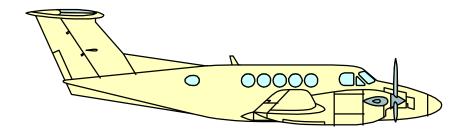
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2312	206BY	BELL			KING	TRANSCEIVER	DEFECTIVE		2/17/98
LS1R	2871	206B3			KY196	064101900	COCKPIT	489	98ZZZX864
	TRANSCEIVER FR	EQUENCY KNOB WILL	NOT WORK. STANI	OBY SELECT SWITCH	WILL NOT WORK.				
3457	4180F	BELL				GPS	DAMAGED		2/25/98
HEEA	51469	206L3			SKYNAV 5000	0845000000	COCKPIT		HEEA0013071
	MESSAGE SWITCH	H DAMAGED. SENT TO	MAGELLAN SYSTEN	MS FOR INSPECTION A	AND REPAIR.				
3424	4UV	BELL				INDICATOR	FAILED	1436	1/7/98
TI1R	23019	230				222375072105	TURN GYRO		98ZZZX945
	TURN INDICATOR	INOPERATIVE. GYRO	WILL NOT SPIN UP.	REMOVED AND REP	LACED.				
2211	117NG	BOLKMS				COMPUTER	FAILED	130	1/16/98
TI1R	7083	BK117A4				11788292	SPAS		98ZZZX938
	SPAS COMPUTER	WILL NOT PASS COLLI	ECTIVE TRANSDUCE	R TEST. REMOVED A	ND REPLACED.				
3446	4493X	BOLKMS				STORMSCOPE	FAILED		1/14/98
TI1R	S7038	BK117A3			WX95	80510950001	COCKPIT		98ZZZX946
	STORMSCOPE UNI	T NOT RECEIVING INF	PUT. REMOVED AND	REPLACED.					
3446	117NG	BOLKMS				DISPLAY	FAILED		1/15/98
TI1R	7083	BK117A4				78806059008	STORMSCOPE		98ZZZX939
	STORMSCOPE DIS	PLAY INOPERATIVE. I	FAILED APPROXIMA	TELY 1 MONTH AFTE	R INSTALLATION. 1	REMOVED AND REPLACE	D.		
3454	117M	BOLKMS				INDICATOR	FAILED		1/29/98
TI1R	S7023	BK117A1				3137LB63B	COCKPIT RMI		98ZZZX950
	RMI INDICATOR 'C	OFF' FLAG WILL NOT S	TOW. REMOVED AN	ND REPLACED.					
6113	9897F	CESSNA				SPINNER	CHAFED		2/2/98
WIWR	17280181	172R				055023613	PROPELLER		98ZZZX933
	INTERFERENCE BI	ETWEEN PROPELLER A	AND PROPELLER SPI	NNER CAUSING CHA	FING ON PROPELLE	R.			
(End of DO	MESTIC SERVICE	DIFFICULTY REPOR	T SUMMARY - CO	OMPONENTS)					

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO				
6110	21457	CESSNA		MCAULY		BEARING	CRACKS	1863	1/1/98				
LU4R	18261642	182P		2A34C201		C34112	PROPELLER ASSY		98ZZZX876				
	PROPELLER ASSEMBLY HAS NUMEROUS CRACK INDICATIONS ON THE SURFACE THAT FACES THE HUB.												
6111	979ND	CESSNA		MCAULY		BLADE	CRACKED	3812	2/10/98				
LU4R	18257443	182J		2A34C201		90DA8	PROPELLER	180	98ZZZX897				
	PROPELLER WAS SHOWING SIGNS OF ERRATIC PITCH CHANGE AND STICKING. BLADE SHOWS EVIDENCE OF PREVIOUS IMPACT STRIKE. THIS AIRCRAFT HAD PREVIOUSLY HAD A STUCK PRESSURE RELIEF VALVE IN THE GOVERNOR WHICH, AFTER DISCUSSION WITH THE PILOT, MAY HAVE CAUSED AN OVERSPEED TO THE PROPELLER.												

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS)



INTERNATIONAL SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5711		AYRES	PWA		AYRES	SPAR	CRACKED	4317	2/8/93
		S2*	R1340AN1			2020343L	WING ROOT		CA930225301
	(CAN) CRACKS FO	OUND IN ALUMINUM C	CAP STRIP PER SB AG	23, ITEM NR 6. BOTH	RT AND LT WINGS	HAD THE AYRES KIT S2R	-FF-002 INSTALLED.		
5712		AYRES	PWA		AYRES	RIB	CRACKED	4317	2/8/93
		S2*	R1340AN1			2417R	WS 72-25 RH WING		CA930225302
	(CAN) RIB AT RT V	WING STATIONS 72-25	REPLACED PER SB N	TR 12.					
2731		BBAVIA				CABLE	FRAYED	4740	3/9/93
		8GCBC				21905	ELEVATOR TRIM		CA930316401
	(CAN) BOTH ELEV	ATOR TRIM CABLES F	FOUND FRAYED AT A	LUMINUM PULLEYS	UNDER ELEVATOR				
2730		BEECH				TORQUE ARM	CRACKED		6/10/92
		3NM				804187504	ELEVATOR		CA930316302
	(CAN) CRACK FOU	JND IN CONTROL ARM	I. FOUND DURING IN	SPECTION PER AD 7	7-19-07.				
2730		BEECH				TORQUE ARM	CRACKED		5/12/92
		D18S				804187504	ELEVATOR		CA930316301
	(CAN) DURING AD	77-19-07 INSPECTION	, CRACK FOUND IN E	LEVATOR CONTROL	ARM.				
3242		BEECH	PWA			LINE	CHAFED		3/1/93
		B200	PT6A41			1015800121	BRAKE RT		CA930311501
	FLOW ENOUGH TO						IR INTERCOOLER CRACKEI NOTED A SOFT PEDAL AND		
5313		BEECH	PWA			STRINGER	CRACKED	12066	11/15/92
		200BEECH	PT6A41				STA 347.75		CA930310126
	(CAN) STRINGERS	8, 9, AND 10 RT, FOUN	ID CRACKED ON REA	AR PRESSURE BULKH	EAD, AFT SIDE AT S	STA 347.75.			
3230		BEECH	LYC		CUTLERHAM	RELAY	FAILED	45	3/23/93
		E95	IO360B1B			6046H39A	MLG RETRACT		CA930303304
	(CAN) LANDING C	SEAR FAILED TO RETR	ACT FULLY. LANDIN	NG GEAR DYNAMIC I	BRAKE RELAY FAIL	ED.			
2720		CESSNA				CABLE	WORN	3382	2/24/93
		150M				040010749	RUDDER		CA930304403
	(CAN) RT AND LT	RUDDER CABLES FOU	IND FRAYED AND W	ORN AT AFT PULLEY	STA 187.0 AND ALS	O AT FORWARD PULLEY	STA 21.0.		
5553		CESSNA				BRACKET	CRACKED	702	1/26/93
		152				04320049	VERTICAL FIN		CA930304528
						FIN ATTACH BRACKET. A E AD SUGGESTED. AIRCE	ANOTHER CRACK WAS FOU RAFT TT: 8,135.	IND UNDER	THE NUTPLATE
2510		CESSNA				PIN	WORN	8927	2/17/93
		172C			05141231	MS203922C11	FRONT SEAT		CA930226406
	(CAN) PINS THAT	RETAIN SEAT BACK IN	N VERTICAL POSITIO	N FOUND WORN APF	PROX 1/2 WAY THRO	OUGH AT LOAD BEARING	AREA APPARENTLY DIFFI	CULT TO IN	SPECT.

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3221		CESSNA				RIVETS	SHEARED	6435	2/23/93
		172M			0540131		NLG UPPER MOUNT		CA930304608
	(CAN) NLG UPPER DISCONNECTED T		ND LOOSE. ALL EIG	HT RIVETS FOUND S	HEARED. LOWER M	MOUNT CAP P/N 05430181 H	IAD TO BE REMOVED, AND	STEERING	ARMS
3260		CESSNA				WIRE	BROKEN		2/1/93
		177RG					NLG		CA930225203
	(CAN) UNSAFE GE	AR INDICATION ON A	PPROACH. GEAR RE	CYCLED, STILL NO L	IGHTS. LANDING O	K. BROKEN WIRE FOUND	ON NLG.		
3260		CESSNA	CONT			SWITCH	INTERMITTENT	2650	1/4/93
		337G	IO360GB			S13771	NLG DOWN		CA930226518
	` '	ACH, GEAR DOWN LIGI ALLY KEPT OUTSIDE, I					T INTO HANGAR AND SWIT	CH EVENT	TUALLY WORKED OK.
3220		CESSNA	CONT			LOCK ARM	BROKEN		1/26/93
		340A	TSIO520N				NLG		CA930308203
	(CAN) NOSE GEAR	COLLAPSED DURING	TAXI. IT APPEARS T	THAT NOSE TURNED	90 DEGREES TO LEF	FT AND FELL IN RUT AND S	SNAPPED LOCK ARM.		
3245		CESSNA		MCAULY		TUBE VALVE	SHEARED		2/4/93
		401		D2AF34C71		650X10302	LANDING GEAR		CA930226408
	(CAN) TIRE FLAT	ON LANDING. VALVE	STEM FOUND SHEAR	RED.					
2421		CESSNA				ALTERNATOR	FAULTY	2	12/16/92
		404CESSNA				694304	NR 1 ENGINE		CA930226521
	(CAN) FLUCTUATI	ONS OF AMPERAGE A	T LOW ENGINE SETT	ΓINGS. INOPERATIVE	E AT HIGH SETTING	S.			
3010		CESSNA				BOOT	DELAMINATED	3563	1/13/93
		421C				2757D507011	LT STABILIZER		CA930309416
	(CAN) LT STABILI	ZER BOOT DELAMINA	TED IN SECTIONS DU	URING FLIGHT. THIS	CAUSED UNEVEN I	CE ACCUMULATION DURI	NG CLIMB AND STARTED A	N ELEVA	TOR FLUTTER.
3233		CESSNA				ACTUATOR	FAILED	8045	2/17/93
		500CESSNA				99120637	NLG		CA930304404
	CHANGE. AIRCRA	AFT DID FLY-BY FOR G	EAR CHECK AND LA	NDED OK. AFTER PA	ASSENGERS DEPLAN		S ATTEMPTED AND ALSO EI E CHECKING AIRCRAFT GE. TC: 8,320.		
3260		CESSNA				SWITCH	CORRODED	399	3/3/93
		550				1CH1066	RT MLG ACTUATOR		CA930312401
	` '					LUMINATE. CHECKED ON WITH SWITCH IN DIM. PAR	I JACKS, OK. SUBMITTER SURT TC: 533.	JGGESTEI	CAUSE OF PROBLEM
2752		CNDAIR				FLAP ACTUATOR	JAMMED		2/8/93
		CL6012A12				853D1006	RT INBD JACK		CA930226407
	THE ÉICAS PRIMA		ED THE FLAPS AT LT	Γ=17 DEGREES AND R	T=18 DEGREES. M	IAINTENANCE INVESTIGA	CT AND WAS IDENTIFIED B' TION REVEALED THE RT SC		
2701		DHAV	PWA			CONTROL COLUMN	CRACKED		2/28/93
		DHC2MK3	PT6A27		C2CF843A	C2CF843A	WELD AREA		CA930309409
	(CAN) CRACK FOI	JND AT WELD AREA O	F CONTROL COLUM	N TOROUE TUBE CE-	84-01				

INTERNATIONAL SERVICE DIFFICULTY REPORT	TSUMMARY	- AIRCRAFT	cont'd)
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ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3246		DHAV				LINK ASSY	CRACKED BENT		3/5/93
		DHC2MK1				C2US1285A	SKIS		CA930316403
	(CAN) LT AND RT	LINK ASSYS FOUND B	ENT AND CRACKED	ON HORIZONTAL PL	ANE AND AT MAIN	SKI AXLE THROUGH-HOL	E.		
5341		DHAV				STRUT	CORRODED		2/15/93
		DHC2MK2					WING STRUT		CA930301101
	(CAN) JO BOLT CA	AUSED CORROSION IN	LOWER END OF STR	UT.					
2720		DHAV				BRACKET	CRACKED		9/3/92
		DHC3				C3TR195	RUDDER CONTROL		CA930316303
	(CAN) CRACK IN I	RUDDER CONTROL AT	TACH BRACKET FOU	ND ON 100-HOUR IN	SPECTION.				
7603		DHAV	PWA			QUADRANT	CRACKED		1/23/93
		DHC6300	PT6A27			C6CE142127	LT LEVER		CA930315201
		LEVER QUADRANT CR MOD 6/1467 REF AD CF-		CES FROM OUTER PA	ARAMETER TOWAR	DS PIVOT POINT. ONE CR	ACK 2 INCHES LONG AND O	THER 1.5 I	NCHES. THIS PART IS
7120		GULSTM	GARRTT			YOKE	CRACKED	7480	1/29/93
		681	TPE3311151A			6200631	ENG MOUNT		CA930217302
						LT LOWER SIDE APPROXIN S JUST CRACKED THROUG	MATELY 6 INCHES UP ON INI GH SKIN.	BOARD SK	IN. WHEN SKIN
2810		GULSTM	LYC			FUEL TANK	CONTAMINATED	1647	2/1/93
		AA5	O320E2G				LT INBOARD		CA930226508
	(CAN) SILICONE F	FOUND INSIDE FUEL TA	ANK. AD 89-18-08 NO	T COMPLIED WITH.	SILICONE HAD NO	Γ GOTEN TO CARBURETO	₹.		
2750		PIPER	LYC			CABLE	FRAYED	3455	2/22/93
		PA24250	O540A1A			2094202	FLAPS		CA930226202
	'	USE NEST FOUND IN B D BEEN BROKEN AND		AROUND FORWARD	FLAP CABLE PULLI	EY. CABLE FOUND FRAYE	D AND ONLY ONE OF CABL	E WIRES W	AS INTACT. REST OF
3230		PIPER	LYC		PIPER	BUNGEE	CRACKED	3455	2/22/93
		PA24250	O540A1A			W20846006	MLG		CA930226203
	(CAN) CRACKS FO OPERATOR HAS F		I WHERE ARM ENGA	GES MLG TRUNNION	N. NEW REPLACEM	ENT PARTS APPEAR MUCI	H STRONGER. THIS IS SECO	ND OCCUR	RENCE THIS
3222		PIPER	LYC		PIPER	TRUNNION	CRACKED		2/2/93
		PA28R200	IO360C1A			67054003	NLG		CA930226509
	SUBMITTER STAT	ES THAT THE REASON TENSION SPRING ON	BOSS CRACKED WA	S THAT BOLTS WER	E SO BADLY CORR	ODED THAT THE BOLT WI	IG MISSING AND OTHER HAI HICH GOES THROUGH ARMA O ROLL OVER INSIDE CASTII	ATURE AN	D GEAR HOUSING
5730		PIPER				SKIN	CRACKED	9700	3/3/93
		PA28161				62061004	WALKWAY		CA930312403
	'	US USE OF WALKWAY NELS AND A FLASHLIO		RACKING OF UNDER	RSIDE OF WALKWA	Y SKIN AT THE END OF SE	IN STIFFENERS. THIS MAY	ВЕ СНЕСК	ED USING LOWER

INTERNATIONAL	SERVICE DIFFICULTY	REPORT SUMMARY	- AIRCRAFT (cont'd)
			- Ancioni i (contu)

<u>INTERNA</u>	<u>TIONAL SERVIC</u>	<u>E DIFFICULTY RE</u>	PORT SUMMARY	<u> </u>	ont'd)		<u>3/1/98 To :</u>	3/7/98 ISS	SUE: 98-10 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7160		PIPER	LYC			BOX	CRACKED	1620	12/30/92
		PA28161	O320D3G			8732802	CARB HEAT		CA930226503
	'	R INSPECTION, CARBU Γ ALL TIMES. SPOT WI		JND CRACKED AT A	IR INLET SIDE, JAM	MING CARB HEAT AIR DO	OR. FULL DOOR TRAVEL	NOT POSSIB	BLE AND CARB HEAT
2140		PIPER	LYC		JANITROL	HEATER CHAMBER	CRACKED	400	2/1/92
		PA30	IO320B1A		20D35		CABIN HEAT		CA930226504
	PROBLEMS FOUNI		BER WAS CRACKED	AND FUEL WAS FOU	IND LEAKING AT TH		IAUST TRACK WAS UNUS ITION, A BIRD WAS FOUNI		
3213		PIPER				HOUSING	CRACKED	4415	2/1/93
		PA30				2705300	LT MLG		CA930226510
	(CAN) LT MLG HO	USING CRACKED IN W	EBBING WHICH REIN	FORCES HOUSING.					
2720		SLNGAV				SUPPORT	MISALIGNED	147	2/16/93
		T67M260				T67M45217	RUDDER PEDAL		CA930303302
	(CAN) RUDDER PE UNDERLYING TUE		UNDER APPLICATIO	N OF PEDAL PRESSU	RE. ON DISASSEMB	SLY, HOLES IN SLIDER MA	TERIAL FOR LOCK PIN NO	T IN LINE W	VITH HOLES IN

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6320		BELL	ALLSN		BELL	TRANSMISSION	CONTAMINATED	6675	1/12/93
		206B	250C20			20604000225	M/R	98	CA930226501
	(CAN) CHIP LIGHT	TRANSMISSION. THI	RD CHIP LIGHT IN 25	HOURS. TRANSMISS	SION REPLACED.				
7120		BELL	ALLSN			STIFFENER	CRACKED	4884	1/18/93
		206L	250C20R2		206033302009	206033201167	LT ENG MOUNT		CA930208409
	(CAN) ON INSPECT		ENGINE MOUNT AT	TACH FITTING, THE	STIFFENER WAS FOU	JND CRACKED ALONG TH	E BEND RADIUS BLOCK I	DIRECTLY U	NDER THE ENGINE
7240		BELL	ALLSN			COMBUSTION LINER	CRACKED	6913	2/10/93
		206B	250C20B			6870992	INNER ELBOW		CA930308202
	(-)	ORTED HIGHER THAN I IER, ALLOWING COMP				ESTIGATION REVEALED A	CRACK IN THE INNER EL	BOW AREA	OF THE OUTER
7323		BELL	ALLSN		CHNDLREVANS	PT GOVERNOR	FAILED	876	7/13/92
		206B	250C20			23006259	ENG GEARBOX		CA930302602
	'					TINGS AND DROPPING OF HAD MOVED SLIGHTLY FE		INSP FOUNI	O THE SET SCREW ON
5350		BELL	PWA			MAIN BEAM PANEL	CRACKED	8911	2/25/93
		212	PT6T3				FUSELAGE		CA930309410
	(CAN) LEFT PANE	L P/N 212-030-169-213 A	ND RIGHT PANEL P	N 212-039-179-199 CR	ACKED. CRACKS NO	OT VISIBLE WITH LONG R.	ANGE TANKS INSTALLED	. AIRCRAFT	TT: 10,260 HOURS.
5521		BELL				SPAR ASSY	SHEARED	5870	2/15/93
		214B			214020100013	00520418	ELEV		CA930310127
	(CAN) FASTENERS	S BETWEEN ASSEMBLI	ES SHEARED CAUSII	NG FRETTING OF ELE	EVATOR RIB AND TU	BULAR SPAR.			
2400		BOLKMS	ALLSN		MCAULY	RELAY	FAILED	2696	1/8/93
		BO105C	250C20B		10591126	A700AAP	REV CURRENT		CA930302613
	(-)					ATTERY SHUT OFF. ELEC UNTIL RELAY BURNT INTI		. REVERSE	CURRENT RELAY
6210		BOLKMS	ALLSN		BOLKMS	BLADE	CRACKED	2222	1/27/93
		BO105CBS	250C20B			10515150E	M/R		CA930302612
	(CAN) CRACKS FO	OUND DURING 100-HOU	JR INSPECTION. RAI	DIUS OF ALL 4 MAIN	ROTOR BLADE TRIM	TABS.			
6320		BOLKMS	ALLSN			PINION GEAR	PEELING	3983	12/7/92
		BO105CBS	250C20B		4638001001	1081	M/R GR BOX		CA930226409
	(CAN) BEARING R	UNNING AREA PEELIN	IG AND PITTED.						
6340		BOLKMS	ALLSN			TACH GENERATOR	SHEARED		2/15/93
		BO105C	250C20B			32005007	M/R RPM		CA930302614
	(CAN) MAIN ROTO	OR RPM INDICATION W	AS LOST. TACH GE	NERATOR DRIVE SH	AFT WAS FOUND TO	BE SHEARED.			
6410		BOLKMS	ALLSN			BLADE	CRACKED	1699	2/10/93
		BO105CBS	250C20B			10531754	T/R		CA930302609
	(CAN) CHORDWIS	E CRACK IN BLADE SK	XIN 2/3 FROM ROOT A	AFT OF LEADING EDO	GE EROSION STRIP.				

INTERNATIONAL	SERVICE DIFF	FICULTY REPORT SUMN	IARY - HELICOPTERS (cont'd)

<u>INTERNA</u>	ATIONAL SERVIC	E DIFFICULTY RE	PORT SUMMAR	Y - HELICOPTER	S (cont'd)		<u>3/1/98 To 3</u>	8/7/98 IS	SUE: 98-10 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6320		BOLKMS				PINION GEAR	SCUFFED	2805	9/9/92
		BK117A1			4639003001	4639211006	INPUT		CA930309412
	(CAN) HEAVY SCU	FFINGS OF PINION GE	AR. PART FROM US	REGISTERED AIRCR	AFT.				
2410		SKRSKY			SKRSKY	GEAR	WORN		12/18/92
		S61N			613520600045	6135207563	NR 2 AC GEN		CA930302603
	` /	OF NR 2 AC GENERATO TACT WITH LOCKWAS		N REVEALED THE G	ENERATOR NUT AND) LOCKWASHER HAD COM	ME FREE FROM MGB. ONE	-THIRD OF	OUTSIDE DIAMETER
7200		SKRSKY	GE		GE	ENGINE	FLAMED OUT		3/8/93
		S61N	CT581401				NR 2		CA930310102
		GGING OPERATION AT WAS CARRIED OUT. I			2 ENGINE FLAMED (OUT. NR 1 ENGINE TORQU	UE WENT TO 118 . LOAD W	AS RELEAS	SED AND SINGLE
2560		SKRSKY	ALLSN		SKRSKY	RETAINER	DISENGAGED		12/28/92
		S76	250C30S		762510110805	7625101108159	NOSE FLOAT		CA930302604
	(CAN) COVER ASS AIRFLOW FORCED		D NOSE FLOAT BAG	CAME OUT OF STOR	AGE AREA DURING	FLIGHT. FORWARD RETA	AINING CLIPS NOT ENGAGE	ED DURING	PACKING AND
7603		SKRSKY			CNTRLEXCORP	CABLE	BROKEN		12/21/92
		S76A			763010191010	C812633	THROTTLE		CA930302608
	(CAN) THROTTLE	CABLE BROKEN APPR	OXIMETELY 27 INCH	IES FROM AFT CABL	E END.				
7500		SNIAS	TMECA			PIPE	CRACKED	701	1/26/93
		AS350B1	ARRIEL1D			0301027300	FREE TURBINE		CA930302610
	(CAN) P2 FREE TUI	RBINE PIPE CRACKED	IN TWO DIRECTLY U	UNDER MOUNTING C	LIP.				
(End of IN	TERNATIONAL SER	VICE DIFFICULTY I	REPORT SUMMAR	Y - HELICOPTERS)					

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7240		BELL	ALLSN			COMBUSTION LINER	CRACKED	6913	2/10/93
		206B	250C20B			6870992	INNER ELBOW		CA930308202
	` '	ORTED HIGHER THAN I NER, ALLOWING COMP				ESTIGATION REVEALED A	CRACK IN THE INNER EI	LBOW AREA	OF THE OUTER
7323		BELL	ALLSN		CHNDLREVANS	PT GOVERNOR	FAILED	876	7/13/92
		206B	250C20			23006259	ENG GEARBOX		CA930302602
	(- //					TTINGS AND DROPPING OF HAD MOVED SLIGHTLY FF		INSP FOUN	D THE SET SCREW ON
7414		CESSNA	CONT		SLICK	MAGNETO SEAL	LEAK	1168	11/25/92
		150H	O200A			4001	LT MAG		CA930302605
						INGS REMOVED AND TIMII OM VENT HOLE. MAGNET			
7313		CESSNA	CONT			FUEL INJECT LINE	CLOGGED		2/23/93
		A185F	IO520D				NR 3 CYLINDER		CA930310119
7532	TO DETONATION	CESSNA	PWA			BLEED CONT VALVE	FAULTY	2275	1/3/93
7532		CESSNA	PWA			BLEED CONT VALVE	FAULTY	2275	1/3/93
		208	PT6A114			311473501	COMPRESSOR		CA930226502
	700-800 POUNDS (REDUCED AND A	OF TORQUE. ON INCRE	EASING POWER, THE ING WAS MADE. M.	RE WERE A SERIES O AINTENANCE FOUND	F SHORT RAPID REP	INWAY. AT APPROXIMATI ORTS SIMILAR TO A PISTO BLEED VALVE HAD A BRO	N ENGINE BACKFIRE. P	OWER WAS	ONCE AGAIN
8520		CESSNA	CONT		CONT	CRANKSHAFT	BROKEN	1259	2/12/93
		310I	IO470U			649135	ENGINE		CA930225204
	(CAN) INFLIGHT S	SHUTDOWN. POWER W	VAS LOST IN CRUISE	. PROPELLER FEATH	ERED. ENGINE SHU	TDOWN. INSPECTION REV	EALED THE CRANKSHA	FT HAD FAIL	ED.
3520		CESSNA	CONT	MCAULY		CRANKCASE	CRACKED	1461	2/19/93
		401	IO520E	3AF32C87		643202	NR 4 CYLINDER		CA930308201
	` /	ECTION DETECTED NO VED AND AREA CLEAN				ON REVEALED NR 4 CYLIN GINE REMOVED.	IDER HAD 2 CYLINDER I	HOLD-DOWN	STUDS BROKEN.
8530		CESSNA	CONT			CYLINDER	CRACKED		2/24/93
		404CESSNA	TSIO520N			646657	NR 1/3 ENGINES		CA930309404
	TEMPERATURE A CRACK ALLOWE	AND PRESSURES. MAIN	TENANCE FOUND N PE BURNING A ONE	R 3 CYLINDER HAD A INCH HOLE IN THE C	CRACK WHICH EXT	JGH RUNNING. THE FLIGH FENDED FROM THE SPARK RGE HOLE ALLOWED HOT	PLUG HOLE TO THE EX	HAUST PORT	. IT APPEARED THE
8500		CESSNA	CONT		CONT	ENGINE	MAKING METAL	124	2/23/93
		414A	TSIO520N				NR 2 ENGINE		CA930226514
	(CAN) LOW OIL P. HOUSING.	RESSURE ON RUN-UP (GREEN ARC 30-60 PS	I). AFTER TROUBLES	SHOOTING, FOUND N	METAL CONTAMINATION I	N OIL FILTER AND DEEF	DENTS IN T	HE OIL PUMP

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7261		CESSNA	PWA			PUMP	SHEARED	48	2/24/93
		500CESSNA	JT15D1			3029284	DRIVE SHAFT		CA930315202
	(- ')		- ,			REASE. WHEN OIL PRESSU DRIVE SHAFT SHEARED. P	URE REACHED MINIMUM INI ART TC: 47	DICATION	THE ENGINE WAS
7200		DHAV	PWA		PWA	ENGINE	FAILED		2/11/93
		DHC2MK3	PT6A20				OIL SYS		CA930226402
	'						OIL PRESSURE FLUCTUATION UTDOWN THE ENGINE WITH		
8530		DHAV	PWA		PWA	EXHAUST VALVE	BROKEN	749	1/19/93
		DHC3	R134059				NR 2 CYL		CA930226507
	(CAN) ENGINE BE VALVE.	GAN TO VIBRATE IN-F	LIGHT. PILOT MADI	E EMERGENCY LAND	ING. INSPECTION	REVEALED NR 2 CYLINDE	R HAD NO COMPRESSION DU	JE TO A BI	ROKEN EXHAUST
8530		MOONEY	LYC		LYC	PUSHROD	BROKEN		1/29/93
		M20C	O360A1D			73434	NR 1 CYLINDER		CA930225205
	AND NR 2 CYLIND	DER INTAKE VALVE PU	SHROD WAS FOUND	BENT. THERE WAS	NO SIGN OF THE V		PUSHROD AND PUSHROD SI ING NOR ANY SIGN OF VARN INED.		
3530		MOONEY	LYC			VALVE GUIDE	SEIZED	8	1/29/93
		M20C	O360A1D			CE12ER	NR 2 CYLINDER		CA930315205
	'	· · · · · · · · · · · · · · · · · · ·				TH SMOKE. EMERGENCY EIZED EXHAUST VALVE G	LANDING CARRIED OUT. OI UIDE.	L PRESSU	RE WAS NOT LOST.
7421		PIPER	LYC		CHAMPION	SPARK PLUG	SEPARATED		2/8/93
		PA23250	IO540C4B5			REM40E	NR 3 CYLINDER		CA930304529
	(CAN) SPARK PLU PLUG REPLACED.	G SEPARATION ON NR	3 CYLINDER. PILOT	NOTICED DARKENE	ED SMOKEY SPOT C	ON INBOARD SIDE OF NR 1	ENGINE. PRECAUTIONARY	LANDING	CARRIED OUT. SPAR
7414		PIPER	LYC		BENDIX	MAGNETO	FAILED	673	2/1/93
		PA30	IO320B1A			105136027	LT MAGNETO #1ENG		CA930226511
	'						IE FAILURE WAS AGE OF TH THE OTHER THREE MAGNET		
8520		PIPER	LYC		LYC	CRANKCASE	CRACKED	1576	2/22/93
		PA31310	TIO540A2C			LW12030	NR 1 CYL BASE		CA930303301
	(CAN) ON INSPECT	ΓΙΟΝ, THE NR 1 ENGIN	E CRANKCASE WAS	FOUND CRACKED A	T THE BASE OF NR	1 CYLINDER.			
3520		PIPER	LYC	HARTZL		CRANKCASE	CRACKED	1599	2/22/93
		PA31310	TIO540A2C	HCE3YR2A		LW12030	NR 2 CYL BASE		CA930305701
	(CAN) ON INSPECT	ΓΙΟΝ, NR 2 ENGINE CR.			SE OF NR 2 CYLIND				
8530		PIPER	LYC			STUDS	BROKEN	795	2/17/93
		PA31	TIO540J2BD				NR1 ENG NR 2 CYL		CA930310303
	CAMÉ UP AND TH	IGHT IN, STALL CONFI	GURATION WITH TH		· ·	The state of the s	NR 1 ENGINE CAME UP TO R UR MOUNTING STUDS BROK		/ER, NR 2 ENGINE

INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - ENGINES (cont'd)

3/1/98 To 3/7/98	ISSUE: 98-10	ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
8530		PIPER	LYC		LYC	VALVE SEAT	LOOSE	596	2/19/93
		PA31350	TIO540J2BD			71894	NR 1 CYL EXH		CA930226201
	` /						CKER COVER, ALUMINUM DE TO REPAIR AND OVERHAUL.		AS DISCOVERED.
8530		PIPER	LYC		LYC	CYLINDER	CRACKED	817	2/12/93
		PA31350	LTIO540J2BD				NR 1 EXH PORT		CA930225201
	` /					THE COOLING FINS. THE MI CHROMED CYLINDER A	EXHAUST PIPE WAS REMOVE SSEMBLY.	ED AND T	THE CRACK COULD BE
7261		PIPER	PWA			SCAVENGE PUMP	CRACKED	2635	3/3/93
		PA31T	PT6A28			3011361	ACCESSORY GEARBX		CA930315206
	(CAN) OIL LEAK N TC: 3,043.	R 2 ENGINE. INSPECT	ION AND DYE PENET	RANT CHECK REVEA	ALED THE OIL SCAV	YENGE PUMP HOUSING WA	AS CRACKED. THE SCAVENG	E PUMP V	WAS REPLACED. PART

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - ENGINES)

<u>INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - COMPONENTS</u>

3/1/98 - 3/7/98 ISSUE: 98-10 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3422		BEECH			TACTAIR	ARTIFICIAL HORIZ	PRECESSING		1/6/93
		9555				T3	COCKPIT DG		CA930315204
	LEVEL FLIGHT. PI		AFT WAS IN A RIGHT	TURN. THIS CONFI	RMED BY STC. SUC		ND BANK WAS NOT PROVIDIT R REDUCED AND CONTROL R		
2312		CESSNA				MIKE JACK	SHORTED	2724	1/14/93
		441				NS112B	VHF COMM		CA930226404
		. LOST COMPLETELY I ON. PROBLEM TRACE				TC VHF FREQUENCIES. B	OTH VHF'S WERE STUCK IN	ΓRANSMI	T, BUT WITH NO
3442		DHAV	PWA		BENDIX	RADAR	WIRE FUSED		2/6/93
		DHC6300	PT6A27		ART161A	ART161A	POWER WIRE		CA930226403
						N. AIRCRAFT WIRING TO CORROSION AS CAUSE.	RADAR CANNON PLUG FUSE	D TOGET	HER INCLUDING
3457		DHAV	PWA			GPS NAVIGATOR	WORN		3/3/93
		DHC6300	PT6A27			TNL2000	COCKPIT		CA930315203
	(CAN) PUSH BUTT	ON KNOBS ARE BACK	LIT. LETTERING IS P	RESENTLY ON KNOB	S AND WEARS OFF	AFTER ONE YEAR.			
(End of IN	ΓERNATIONAL SER	RVICE DIFFICULTY I	REPORT SUMMARY	Y - COMPONENTS)					

INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS

3/1/98 - 3/7/98 ISSUE: 98-10 ZAC-327

ATA REG. NO OPER SERIAL NO

ACFT MAKE ACFT MODEL ENG MAKE ENG MDL PROP MAKE PROP MDL COMP MFG COMP MDL PART NAME PART NUMBER PART COND PART LOC.

TT DIFF. DATE
TSO OPER CONT NO

(There was no data for this report.)

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS)



SERVICE DIFFICULTY REPORT SUMMARY GENERAL AVIATION - INDEX



The following information provides a tally of the Service Difficulty Reports (SDR's) contained in this weeks issue of the General Aviation SDR Summary. The totals represent only a summation of the SDR's that were submitted to the FAA, Aviation Data Systems Branch, AFS-620, and processed in time for inclusion in the Summary. The first table is a tally of the number of SDR's submitted through the indicated Flight Standards District Office (FSDO). The second table sorts the SDR's by the aircraft or equipment make and model. The heading at the top of each table provides a two digit Joint Aircraft System/Component (JASC) code grouping (e.g., JASC codes 1100 thru 1800 are represented by the heading labeled 11-18) which categorizes in general, the problem areas for each reported discrepancy.

The Flight Standards Service Difficulty Program objective is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products. This is accomplished by the collection of Service Difficulty and Malfunction or Defect Reports. SDR's are consolidation and collation into common data base where they are analyzed for trends, problems, and alert information. This information is then disseminated to the appropriate segments of the aviation community and to other FAA offices.

The number of SDR's submitted is not an indicator of the mechanical reliability or fitness of an air carrier's aircraft fleet and should not be used as such. The air carriers certificate holding office has the primary responsibility for planning, programming evaluations, and assessing the performance of operators. Questions regarding an air carrier's fleet performance should be directed to the appropriate Flight Standards District Office, Certificate Management Office, or Certificate Management Unit.

GENERAL AVIATION SUMMARY INDEX BY DISTRICT OFFICE

DISTRICT OFFICE	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM (51-57	CHAPTER 61-67	71-79	80-85	TOTAL
AL 01	0	0	0	0	0	0	0	3	3
AL 05	0	0	0	0	0	0	1	0	1
CA	0	17	17	0	8	6	17	12	77
CE 07	0	0	0	0	0	0	0	1	1
EA 03	0	0	0	0	0	1	0	0	1
EA 07	0	0	0	0	0	0	1	0	1
EA 13	0	1	0	0	0	1	0	0	2
EA 17	0	1	0	0	0	0	0	1	2
EA 23	0	0	4	0	1	0	0	0	5
EA 25	0	0	0	0	0	0	1	0	1
FS 01	0	0	0	0	0	2	0	0	2
GL 05	0	1	3	0	1	0	0	0	5
GL 11	0	1	0	0	0	0	0	0	1
GL 25	0	1	1	0	0	0	0	0	2
NE 03	0	0	0	0	0	0	0	2	2
NE 05	0	0	0	0	0	0	0	1	1
NM 01	0	0	0	0	0	0	1	0	1
NM 09	0	1	0	0	0	0	0	0	1
SO 11	0	1	0	0	0	0	0	0	1
SO 15	0	0	0	0	0	0	1	0	1
SO 17	0	0	0	0	0	2	0	0	2
SO 21	0	0	1	0	0	0	0	0	1
SW 01	0	0	0	0	0	0	0	1	1
SW 03	0	0	1	0	1	3	0	0	5
SW 05	0	7	6	0	0	8	0	1	22
SW 15	0	0	1	0	0	0	0	0	1

GENERAL.	AVIATION	SUMMARY	INDEX by	DISTRICT	OFFICE (cont'd)
OLINLIAL	Δ VIATION	DUMINIAN	INDEA OV	DISTRICT	Of TICE (Contu)

GENERAL AVIATIO	N SUMMARY	INDEX by DIS	TRICT OFFICE	E (cont'd)			<u>3/1/98 T</u>	To 3/7/98 ISSUI	E: 98-10 ZAC-327
DISTRICT OFFICE	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM (51-57	CHAPTER 61-67	71-79	80-85	TOTAL
SW 99	0	0	0	0	0	0	2	0	2
WP 07	0	0	0	0	0	1	0	0	1
WP 09	0	0	0	0	0	0	1	0	1
WP 11	0	0	0	0	1	0	0	0	1
WP 23	0	1	0	0	0	0	2	0	3
WP 25	0	1	0	0	0	0	0	0	1
TOTALS	0	33	34	0	12	24	27	22	152

(End of GENERAL AVIATION SUMMARY INDEX by DISTRICT OFFICE Report)

GENERAL AVIATION SUMMARY INDEX by MANUFACTURER MAKE and MODEL

3/1/98 To 3/7/98 ISSUE: 98-10 ZAC-327

AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM (51-57	CHAPTER 61-67	71-79	80-85	TOTAL
AMTRDF	KITFOX	0	0	0	0	0	0	1	0	1
AYRES	S2*	0	0	0	0	2	0	0	0	2
BBAVIA	8GCBC	0	1	0	0	1	0	0	0	2
BEECH	200BEECH	0	0	0	0	1	0	0	0	1
BEECH	3NM	0	1	0	0	0	0	0	0	1
BEECH	9555	0	0	1	0	0	0	0	0	1
BEECH	A36	0	0	0	0	0	0	0	1	1
BEECH	B200	0	0	1	0	0	0	0	0	1
BEECH	С35ВЕЕСН	0	0	0	0	0	0	1	0	1
BEECH	C90	0	1	0	0	0	0	0	0	1
BEECH	C99	0	1	0	0	0	0	0	0	1
BEECH	D18S	0	1	0	0	0	0	0	0	1
BEECH	E95	0	0	1	0	0	0	0	0	1
BELL	206B	0	0	0	0	0	0	2	0	2
BELL	206B	0	0	0	0	0	1	0	0	1
BELL	206B3	0	1	0	0	0	1	0	0	2
BELL	206L	0	0	0	0	0	0	1	0	1
BELL	206L1	0	0	0	0	0	1	0	0	1
BELL	206L3	0	0	1	0	0	0	0	0	1
BELL	206L4	0	0	0	0	0	0	1	0	1
BELL	212	0	0	0	0	1	0	0	0	1
BELL	212	0	0	0	0	0	2	0	0	2
BELL	214B	0	0	0	0	1	0	0	0	1
BELL	222U	0	0	0	0	0	2	0	0	2
BELL	230	0	2	1	0	0	0	0	0	3
BELL	412	0	0	0	0	1	2	0	0	3
BOLKMS	BK117A1	0	0	1	0	0	1	0	0	2

AIRCRAFT	AIRCRAFT				LS BY FAA A					
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
BOLKMS	BK117A3	0	2	1	0	0	1	0	1	5
BOLKMS	BK117A4	0	1	1	0	0	0	0	0	2
BOLKMS	BK117B1	0	1	0	0	0	1	0	0	2
BOLKMS	BK117C1	0	1	2	0	0	5	0	0	8
BOLKMS	BO105C	0	1	0	0	0	1	0	0	2
BOLKMS	BO105CBS	0	0	0	0	0	3	0	0	3
CESSNA	150H	0	0	0	0	0	0	1	0	1
CESSNA	150M	0	1	0	0	0	0	0	0	1
CESSNA	150M	0	1	0	0	0	0	0	0	1
CESSNA	152	0	0	0	0	1	0	0	0	1
CESSNA	172C	0	1	0	0	0	0	0	0	1
CESSNA	172M	0	0	1	0	0	0	0	0	1
CESSNA	172N	0	1	0	0	0	0	0	0	1
CESSNA	172R	0	0	0	0	0	1	0	0	1
CESSNA	177RG	0	0	1	0	0	0	0	0	1
CESSNA	182	0	0	4	0	0	0	0	0	4
CESSNA	182J	0	0	0	0	0	1	0	0	1
CESSNA	182P	0	0	0	0	0	1	0	0	1
CESSNA	182S	0	1	0	0	0	0	0	0	1
CESSNA	207A	0	0	0	0	0	0	0	2	2
CESSNA	208	0	0	0	0	0	0	1	0	1
CESSNA	310I	0	0	0	0	0	0	0	1	1
CESSNA	337G	0	0	1	0	0	0	0	0	1
CESSNA	337H	0	0	0	0	0	0	0	1	1
CESSNA	340A	0	0	1	0	1	0	0	1	3
CESSNA	401	0	0	1	0	0	0	0	1	2
CESSNA	404CESSNA	0	1	0	0	0	0	0	1	2

AIRCRAFT	AIRCRAFT				LS BY FAA A					
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
CESSNA	414A	0	0	0	0	0	0	0	1	1
CESSNA	421C	0	0	1	0	0	0	0	0	1
CESSNA	441	0	1	0	0	0	0	0	0	1
CESSNA	500CESSNA	0	0	0	0	0	0	1	0	1
CESSNA	500CESSNA	0	0	1	0	0	0	0	0	1
CESSNA	525	0	0	1	0	0	0	0	0	1
CESSNA	550	0	0	1	0	0	0	1	0	2
CESSNA	A185F	0	0	0	0	0	0	1	0	1
CESSNA	T210M	0	0	0	0	0	0	0	1	1
CNDAIR	CL6012A12	0	1	0	0	0	0	0	0	1
DHAV	DHC2MK1	0	0	1	0	0	0	0	0	1
DHAV	DHC2MK2	0	0	0	0	1	0	0	0	1
DHAV	DHC2MK3	0	1	0	0	0	0	1	0	2
DHAV	DHC3	0	1	0	0	0	0	0	1	2
DHAV	DHC6300	0	0	1	0	0	0	0	0	1
DHAV	DHC6300	0	0	1	0	0	0	1	0	2
DOUG	600N	0	0	0	0	0	0	1	0	1
GULSTM	560	0	1	3	0	1	0	0	0	5
GULSTM	681	0	0	0	0	0	0	1	0	1
GULSTM	AA5	0	1	0	0	0	0	0	0	1
HUGHES	369E	0	0	0	0	0	0	2	0	2
MAULE	MXT7180	0	0	0	0	0	0	1	0	1
MOONEY	M20C	0	0	0	0	0	0	0	2	2
MOONEY	M20F	0	1	0	0	0	0	0	0	1
PIPER	PA23250	0	0	0	0	0	0	1	0	1
PIPER	PA24250	0	1	1	0	0	0	0	0	2
PIPER	PA28161	0	0	0	0	1	0	0	0	1

GENERAL AVIAT	N SUMMARY INDEX by M	JANUFACTURER MAKE	and MODEL (cont'd)
OLIVLIAL AVIAL			and MODEL (conta)

3/1/98 To 3/7/98	ISSUE: 98-10	ZAC-327

AIRCRAFT	AIRCRAFT	SDR TOTALS BY FAA ATA SYSTEM CHAPTER								
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
PIPER	PA28161	0	0	0	0	0	0	1	0	1
PIPER	PA28180	0	0	0	0	0	0	0	1	1
PIPER	PA28181	0	1	0	0	0	0	0	0	1
PIPER	PA28R200	0	0	1	0	0	0	0	0	1
PIPER	PA30	0	1	1	0	0	0	1	0	3
PIPER	PA31	0	0	0	0	0	0	0	1	1
PIPER	PA31310	0	0	0	0	0	0	0	2	2
PIPER	PA31350	0	0	0	0	0	0	0	2	2
PIPER	PA31P	0	0	1	0	0	0	0	0	1
PIPER	PA31T	0	0	0	0	0	0	1	0	1
PIPER	PA34200	0	0	0	0	0	0	0	1	1
PIPER	PA44180	0	0	1	0	0	0	1	0	2
PIPER	PA46350P	0	0	0	0	0	0	1	0	1
PIPER	PA60601P	0	0	0	0	0	0	0	1	1
SKRSKY	S61N	0	1	0	0	0	0	1	0	2
SKRSKY	S76	0	1	0	0	0	0	0	0	1
SKRSKY	S76A	0	0	0	0	0	0	1	0	1
SLNGAV	T67M260	0	1	0	0	0	0	0	0	1
SNIAS	AS350B1	0	0	0	0	0	0	1	0	1
	TOTALS	0	33	34	0	12	24	27	22	152
(End of AIR CARRIER SUMMARY INDEX by OPERATOR Report)										

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JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

PREFACE

The Joint Aircraft System/Component (JASC) Code Table is a modified version of the Air Transport Association of America (ATA), Specification 100 code. It was developed by the Federal Aviation Administration's (FAA), Aviation Data Systems Branch (AFS-620). Technical support was provided by the Galaxy Scientific Corporation, and various representatives of the air carrier and general aviation community.

Over the past four years, the JASC format of the ATA Spec 100 code has gained widespread industry acceptance. In a harmonized effort, the FAA's counterparts in Australia and Canada have adopted the JASC code with only a few exceptions. Some Canadian aircraft manufacturers have also recently adopted this new stardard.

This code table is constructed by using the new JASC four (4) digit code, along with an abbreviated code title. The abbreviated titles have been modified in some cases to clarify the intended use of the accompanying code. This table can be used as a quick reference chart, to assist in the coding and review of aircraft structures or systems data (i.e., Service Difficulty Report (SDR), Accident/Incident Report).

The current coding scheme used in the JASC code was introduced in May 1991, for the technical classification of SDR's. Its predecessor, the FAA aircraft system/component code, was a similar but more complex eight-digit code which was developed over 25 years ago. It was constructed around the computer technology of that period. It consisted of a four digit numerical code plus a four alpha character code to make data retrieval possible. Since that time, computer technology has advanced many fold. Reducing the code from eight to four characters simplifies coding, and in some cases, makes JASC coding match the ATA Specification 100 first three digits, which are used to identify aircraft systems. The ATA code does not reference the fourth digit, so it is free to be used for identifying components.

The JASC code aircraft structural section has increased due to problems inherent with aging aircraft. As an example, FAA code 5301 SXBD was expanded to 20 items due to the high rate of reporting in this area (8021 structural reports were received in 1989). In some instances, there was very little reporting and codes were combined into other systems if the safety impact was not significant. The overall reduction in codes has been from 568 FAA codes to 488 JASC codes, with the significant increase being in the structural area as stated earlier.

The JASC code divides the engine section into two major code groups to separate the turbine and reciprocating engines. The codes for the turbine engines are in JASC Chapter 72, Turbine/Turboprop Engine. The codes for the reciprocating engines are now exclusively found in JASC Chapter 85, Reciprocating Engine.

The other major deviation from ATA Spec 100 is in ATA section 2730, specifically involves the stall warning system. Early technology (primarily on smaller aircraft) directly linked the sensing of flight attitude to one of the components which furnished the means of manually controlling the flight attitude characteristics (elevator). Today, most large transport category aircraft utilize electronic units to sense the change in the environmental condition called stall, and use the data to influence navigation. ATA section 3410, Flight Environment Data, includes high speed warning in its code definition. Stall warning (low speed) is the reciprocal term of high speed warning, so its filing under the same code appears more logical. Thus, with the JASC code it was decided to move the stall warning system to Chapter 34 under the separate code JASC code 3418, Stall Warning System.

The FAA is continuing to pursue worldwide involvement from operators and manufacturers in addressing the need for international standardization of aircraft system/component codes. The ultimate goal is to develop a universal aircraft/component numbering standard which can be used in the manufacturer's maintenance manual, wiring diagram manual, system manuals and illustrated parts catalog. This harmonized standard must be a usable standard for the aircraft manufacturers, air carrier operators and the general aviation community.

We welcome comments and feedback regarding the possible forming of working groups to achieve this long range consideration of possibly harmonizing the ATA Specification 100 code and the JASC code. Comments may be directed to the FAA, Aviation Data Sytem Branch, AFS-620, P.O. Box 25082, Oklahoma City, OK 73125.

JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

JASC/ TITLE

2170 HUMIDITY CONTROL SYSTEM

11 PLACARDS AND I	MARKINGS 22	AUTO FLIGHT	24 E	LECTRICAL POWER CONT'D
1100 PLACARDS AND M	ARKINGS 2200	AUTO FLIGHT SYSTEM	2424	AC REGULATOR
	2210	AUTOPILOT SYSTEM	2425	AC INDICATING SYSTEM
12 SERVICING	2211	AUTOPILOT COMPUTER	2430	DC GENERATING SYSTEM
<u> 12 GERTIONE</u>	2212	ALTITUDE CONTROLLER	2431	BATTERY OVERHEAT WARN. SYSTEM
1010 - FUEL OFFICIONO	2213	FLIGHT CONTROLLER	2432	BATTERY/CHARGER SYSTEM
1210 FUEL SERVICING	2214	AUTOPILOT TRIM INDICATOR	2433	DC RECTIFIER-CONVERTER
1220 OIL SERVICING	2215	AUTOPILOT MAIN SERVO	2434	DC GENERATOR-ALTERNATOR
1230 HYDRAULIC FLUID	2216	AUTOPILOT TRIM SERVO	2435	STARTER-GENERATOR
1240 COOLANT SERVICE	NG 2220	SPEED-ATTITUDE CORRECT. SYSTEM	2436	DC REGULATOR
40 HELICOPTED VIDE	ATION 2230	AUTO THROTTLE SYSTEM	2437	DC INDICATING SYSTEM
18 HELICOPTER VIBR	2250	AERODYNAMIC LOAD ALLEVIATING	2440	EXTERNAL POWER SYSTEM
1800 HELICOPTER VIB/N	IOISE ANALYSIS		2450	AC POWER DISTRIBUTION SYSTEM
1810 HELICOPTER VIBR	ATION ANALYSIS 23	COMMUNICATIONS	2460	DC POW ER/DISTRIBUTION SYSTEM
1820 HELICOPTER NOIS	E ANALYSIS			
24 AIR CONDITIONIN	2300	COMMUNICATIONS SYSTEM	<u>25 E</u>	QUIPM ENT/FURNISHINGS
21 AIR CONDITIONIN		HF COMMUNICATION SYSTEM	0.5.0.0	CARIN FOLURAENT/FURNICUINGS
2100 AIR CONDITIONING	S SYSTEM 2311	UHF COMMUNICATION SYSTEM	2500	CABIN EQUIPMENT/FURNISHINGS
2110 CABIN COMPRESS	2212	VHF COMMUNICATION SYSTEM	2510	FLIGHT COMPARTMENT EQUIPMENT
2120 AIR DISTRIBUTION	2220	DATA TRANSMISSION AUTO CALL	2520	PASSENGER COMPARTMENT EQUIPMENT
2121 AIR DISTRIBUTION	2330	ENTERTAINMENT SYSTEM	2530	BUFFET/GALLEYS
2130 CABIN PRESSURE	2240	INTERPHONE & PA SYSTEM	2540	LAVATORIES
2131 CABIN PRESSURE	2250	AUDIO INTEGRATING SYSTEM	2550	CARGO COMPARTMENTS
2132 CABIN PRESSURE	2260	STATIC DISCHARGE SYSTEM	2551	AGRICULTURAL SPRAY SYSTEM
2133 PRESSURE REGUL	2370	AUDIO/VIDEO MONITORING	2560	EMERGENCY EQUIPMENT
2134 CABIN PRESSURE		ELECTRICAL POWER	2561	LIFE JACKET
2140 HEATING SYSTEM	<u> </u>	<u> LEEGIRIOAL I OW ER</u>	2562	EMERGENCY LOCATOR BEACON
2150 CABIN COOLING S	YSTEM 2400	ELECTRICAL POWER SYSTEM	2563	PARACHUTE
	JRE CONTROL SYSTEM 2410	ALTERNATOR-GENERATOR DRIVE	2564	LIFE RAFT
2161 CABIN TEM PERATU			2565	ESCAPE SLIDE
2162 CABIN TEMPERATI		AC GENERATOR-ALTERNATOR	2570	ACCESSORY COMPARTMENT
2163 CABIN TEMPERATU		AC INVERTER	2571	BATTERY BOX STRUCTURE
	7KE 0EN00K ==		2572	ELECTRONIC SHELF SECTION

2423 PHASE ADAPTER

26 FIRE PROTECTION	29 F	HYDRAULIC POWER	<u>32 L</u>	ANDING GEAR
2600 FIRE PROTECTION SYSTEM	2900	HYDRAULIC POWER SYSTEM	3200	LANDING GEAR SYSTEM
2610 DETECTION SYSTEM	2910	HYDRAULIC, MAIN SYSTEM	3201	LANDING GEAR/WHEEL FAIRING
2611 SMOKE DETECTION	2911	HYDRAULIC POWER-ACCUMULATOR-MAIN	3210	MAIN LANDING GEAR
2612 FIRE DETECTION	2912	HYDRAULIC FILTER-MAIN SYSTEM	3211	MAIN LANDING GEAR ATTACH SECTION
2613 OVERHEAT DETECTION	2913	HYDRAULIC PUMP. ELECT-ENGMAIN	3212	EMERGENCY FLOTATION SECTION
2620 EXTINGUISHING SYSTEM	2914	HYDRAULIC HANDPUMP-MAIN	3213	MAIN LANDING GEAR STRUT/AXLE/TRUCK
2621 FIRE BOTTLE, FIXED	2915	HYDRAULIC PRESSURE RELIEF VLV-MAIN	3220	NOSE/TAIL LANDING GEAR
2622 FIRE BOTTLE, PORTABLE	2916	HYDRAULIC RESERVOIR-MAIN	3221	NOSE/TAIL LANDING GEAR ATTACH SECTION
27 FLICHT CONTROLS	2917	HYDRAULIC PRESSURE REGULATOR-MAIN	3222	NOSE/TAIL LANDING GEAR STRUT/AXLE
27 FLIGHT CONTROLS	2920	HYDRAULIC, AUXILIARY SYSTEM	3230	LANDING GEAR RETRACT/EXT. SYSTEM
2700 FLIGHT CONTROL SYSTEM	2921	HYDRAULIC ACCUMULATOR-AUXILIARY	3231	LANDING GEAR DOOR RETRACT SECTION
2701 CONTROL COLUMN SECTION	2922	HYDRAULIC FILTER-AUXILIARY	3232	LANDING GEAR DOOR ACTUATOR
2710 AILERON CONTROL SYSTEM	2923	HYDRAULIC PUMP-AUXILIARY	3233	LANDING GEAR ACTUATOR
2711 AILERON TAB CONTROL SYSTEM	2925	HYDRAULIC PRESSURE RELIEF-AUXILIARY	3234	LANDING GEAR SELECTOR
2720 RUDDER CONTROL SYSTEM	2926	HYDRAULIC RESERVOIR-AUXILIARY	3240	LANDING GEAR BRAKE SYSTEM
2721 RUDDER TAB CONTROL SYSTEM	2927	HYDRAULIC PRESSURE REGULATOR-AUX.	3241	BRAKE ANTI-SKID SECTION
2722 RUDDER ACTUATOR	2930	HYDRAULIC SYSTEM INDICATING	3242	BRAKE
2730 ELEVATOR CONTROL SYSTEM	2931	HYDRAULIC PRESSURE INDICATOR	3243	MASTER CYL/BRAKE VALVE
2731 ELEVATOR TAB CONTROL SYSTEM	2932	HYDRAULIC PRESSURE SENSOR	3244	TIRE
2740 STABILIZER CONTROL SYSTEM	2933	HYDRAULIC QUANTITY INDICATOR	3245	TIRE TUBE
2741 STABILIZER POSITION INDICATING	2934	HYDRAULIC QUANTITY SENSOR	3246	WHEEL/SKI/FLOAT
2742 STABILIZER ACTUATOR	<u>30 l</u>	CE AND RAIN PROTECTION	3250	LANDING GEAR STEERING SYSTEM
2750 TE FLAP CONTROL SYSTEM	3000	ICE/RAIN PROTECTION SYSTEM	3251	STEERING UNIT
2751 TE FLAP POSITION IND. SYSTEM	3010	AIRFOIL ANTI/DE-ICE SYSTEM	3252	SHIMMY DAMPER
2752 TE FLAP ACTUATOR	3010	AIR INTAKE ANTI/DE-ICE SYSTEM	3260	LANDING GEAR POSITION & WARNING
2760 DRAG CONTROL SYSTEM	3030	PITOT/STATIC ANTI-ICE SYSTEM	3270	AUXILIARY GEAR (TAIL SKID)
2761 DRAG CONTROL ACTUATOR	3040	WINDSHIELD/DOOR RAIN/ICE REMOVAL	33 L	<u>IGHTS</u>
2770 GUST LOCK/DAMPER SYSTEM	3050	ANTENNA/RADOME ANTI-ICE/DE-ICE SYSTEM		
2780 LE FLAP CONTROL SYSTEM	3060	PROP/ROTOR ANTI-ICE/DE-ICE SYSTEM	3300 3310	LIGHTING SYSTEM FLIGHT COMPARTMENT LIGHTING
2781 LE FLAP POSITION IND. SYSTEM	3070	WATER LINE ANTI-ICE SYSTEM	3310	PASSENGER COMPARTMENT LIGHTING
2782 LE FLAP ACTUATOR	3080	ICE DETECTION	3320	CARGO COMPARTMENT LIGHTING
28 FUEL			3340	EXTERIOR LIGHTING
2800 AIRCRAFT FUEL SYSTEM	<u>31 I</u>	<u>NSTRUMENTS</u>	3350	EMERGENCY LIGHTING
2810 FUEL STORAGE	3100	INDICATING/RECORDING SYSTEM		
2820 ACFT FUEL DISTRIB. SYSTEM	3110	INSTRUMENT PANEL	<u>34 N</u>	AVIGATION
2821 ACFT FUEL FILTER/STRAINER	3120	INDEPENDENT INSTRUMENTS (CLOCK, ETC.)	3400	NAVIGATION SYSTEM
2822 FUEL BOOST PUMP	3130	DATA RECORDERS (FLT/MAINT)	3410	FLIGHT ENVIRONMENT DATA
2823 FUEL SELECTOR/SHUTOFF VALVE	3140	CENTRAL COMPUTERS (EICAS)	3411	PITOT/STATIC SYSTEM
2824 FUEL TRANSFER VALVE	3150	CENTRAL WARNING	3412	OUTSIDE AIR TEMP. IND./SENSOR
2830 FUEL DUMP SYSTEM	3160	CENTRAL DISPLAY	3413	RATE OF CLIMB INDICATOR
2840 ACFT FUEL INDICATING	3170	AUTOMATIC DATA	3414	AIRSPEED/MACH INDICATING
2841 FUEL QUANTITY INDICATOR			3415	HIGH SPEED WARNING
2842 FUEL QUANTITY SENSOR			3416	ALTIMETER, BAROMETRIC/ENCODER
2843 FUEL TEMPERATURE INDICATING				

2844 FUEL PRESSURE INDICATOR

<u>34 N</u>	AVIGATION CONT'D	37 V	ACUUM_	5247	APU DOORS
3417	AIR DATA COMPUTER	3700	VACUUM SYSTEM	5248	TAIL CONE DOORS
3418	STALL WARNING SYSTEM	3710	VACUUM DISTRIBUTION SYSTEM	5250	FIXED INNER DOORS
3420	ATTITUDE AND DIRECTION DATA SYSTEM	3720	VACUUM INDICATING SYSTEM	5260	ENTRANCE STAIRS
3421	ATTITUDE GYRO & IND. SYSTEM			5270	DOOR WARNING SYSTEM
3422	DIRECTIONAL GYRO & IND. SYSTEM	<u>38 W</u>	<u>/ATER/WASTE</u>	5280	LANDING GEAR DOORS
3423	MAGNETIC COMPASS	3800	WATER & WASTE SYSTEM	<u>53 F</u>	USELAGE
3424	TURN & BANK/RATE OF TURN INDICATOR	3810	POTABLE WATER SYSTEM	5300	FUSELAGE STRUCTURE (GENERAL)
3425	INTEGRATED FLT. DIRECTOR SYSTEM	3820	WASH WATER SYSTEM	5301	AERIAL TOW EQUIPMENT
3430	LANDING & TAXI AIDS	3830	WASTE DISPOSAL SYSTEM	5302	ROTORCRAFT TAIL BOOM
3431	LOCALIZER/VOR SYSTEM	3840	AIR SUPPLY (WATER PRESS. SYSTEM)	5310	FUSELAGE MAIN STRUCTURE
3432 3433	GLIDE SLOPE SYSTEM MICROWAVE LANDING SYSTEM	45 C	ENTRAL MAINT. SYSTEM	5311 5312	FUSELAGE MAIN FRAME FUSELAGE MAIN BULKHEAD
3434	MARKER BEACON SYSTEM	4500	CENTRAL MAINT. COMPUTER	5312	FUSELAGE MAIN LONGERON/STRINGER
3435	HEADS UP DISPLAY SYSTEM	1000	CENTRAL MANNET. COM CTER	5314	FUSELAGE MAIN KEEL
3436	WIND SHEAR DETECTION SYSTEM	49 A	IRBORNE AUXILIARY POWER	5314	FUSELAGE MAIN FLOOR BEAM
3440	INDEPENDENT POS. DETERMINING SYSTEM		AUDDODNE ADU OVOTEM	5315	FUSELAGE MISCELLANEOUS STRUCTURE
3441	INERTIAL GUIDANCE SYSTEM	4900	AIRBORNE APU SYSTEM	5320	FUSELAGE FLOOR PANEL
3442	WEATHER RADAR SYSTEM	4910	APU COWLING/CONTAINMENT	5321	FUSELAGE INTERNAL MOUNT STRUCTURE
3443	DOPPLER SYSTEM	4920	APU CORE ENGINE	5322	FUSELAGE INTERNAL MOUNT STRUCTURE
3444	GROUND PROXIMITY SYSTEM	4930	A PU ENGINE FUEL & CONTROL	5323	FUSELAGE FIXED PARTITIONS
3445	AIR COLLISION AVOIDANCE SYSTEM (TCAS)	4940	APU START/IGNITION SYSTEM	5324	FUSELAGE MAIN PLATE/SKIN
3446	NON RADAR WEATHER SYSTEM	4950	APU BLEED AIR SYSTEM	5340	FUSELAGE MAIN ATTACH FITTINGS
3450	DEPENDENT POSITION DETERMINING SYSTEM	4960	APU CONTROLS	5341	WING ATTACH FITTINGS (ON FUSELAGE)
3451	DME/TACAN SYSTEM	4970	APU INDICATING SYSTEM	5342	STABILIZER ATTACH FITTINGS
3452	ATC TRANSPONDER SYSTEM	4980	APU EXHAUST SYSTEM	5342	LANDING GEAR ATTACH FITTINGS
3453	LORAN SYSTEM	4990	APU OIL SYSTEM	5344	FUSELAGE DOOR HINGES
3454	VOR SYSTEM	51 S	TANDARD PRACTICES/STRUCTURES	5345	FUSELAGE EQUIPMENT ATTACH FITTINGS
3455	ADF SYSTEM			5346	POWERPLANT ATTACH FITTINGS
3456	OMEGA NAVIGATION SYSTEM	5100	STANDARD PRACTICES/STRUCTURES	5347	SEAT/CARGO ATTACH FITTINGS
3457	GLOBAL POSITIONING SYSTEM	5101	AIRCRAFT STRUCTURES	5350	FUSELAGE AERODYNAMIC FAIRINGS
3460	FLIGHT MANAGE. COMPUTING SYSTEM	5102	BALLOON REPORTS		
		50 D	0000		IACELLES/PYLONS
<u>35 O</u>	XYGEN	<u>52 D</u>	<u>oors</u>	5400	NACELLE/PYLON STRUCTURE
3500	OXYGEN SYSTEM	5200	DOORS	5410	MAIN FRAME (ON NACELLE/PYLON)
3510	CREW OXYGEN SYSTEM	5210	PASSENGER/CREW DOORS	5411	FRAME/SPAR/RIB(NACELLE/PYLON)
3520	PASSENGER OXYGEN SYSTEM	5220	EMERGENCY EXIT	5412	BULKHEAD/FIREWALL (NAC/PYLON)
3530	PORTABLE OXYGEN SYSTEM	5230	CARGO/BAGGAGE DOORS	5413	LONGERON/STRINGER (NAC/PYLON)
36 D	NEUMATIC_	5240	SERVICE DOORS	5414	PLATE SKIN (NAC/PYLONS)
<u> 30 F</u>	NLOWATIC	5241	GALLEY DOORS	5415	ATTACH FITTINGS (NAC/PYLON)
3600	PNEUMATIC SYSTEM	5242	E/E COMPARTMENT DOORS	55 S	TABILIZERS
3610	PNEUMATIC DISTRIBUTION SYSTEM	5242	HYDRAULIC COMPARTMENT DOORS	5500	EM PENNAGE STRUCTURE
3620	PNEUMATIC INDICATING SYSTEM	5244	ACCESSORY COMPARTMENT DOORS	5510	HORIZONTAL STABILIZER STRUCTURE
		5245	AIR CONDITIONING COMPART, DOORS	5511	HORIZONTAL STABILIZER SPAR/RIB
		5246	FLUID SERVICE DOORS	5512	HORIZONTAL STABILIZER PLATE/SKIN
		0240	. 10.5 GERVIOL BOOKS	5513	HORIZONTAL STABILIZER TAB STRUCTURE
				5520	ELEVATOR STRUCTURE
				0020	

55 STABILIZERS CONT'D	61 PROPELLERS/PROPULSORS	67 ROTORS FLIGHT CONTROL
5521 ELEVATOR SPAR/RIB STRUCTURE	6100 PROPELLER SYSTEM	6700 ROTORCRAFT FLIGHT CONTROL
5522 ELEVATOR PLATES/SKIN STRUCTURE	6110 PROPELLER ASSEMBLY	6710 MAIN ROTOR CONTROL
5523 ELEVATOR TAB STRUCTURE	6111 PROPELLER BLADE SECTION	6711 TILT ROTOR FLIGHT CONTROL
5530 VERTICAL STABILIZER STRUCTURE	6112 PROPELLER DE-ICE BOOT SECTION	6720 TAIL ROTOR CONTROL SYSTEM
5531 VERTICAL STABILIZER SPAR/RIB STRUCTURE	6113 PROPELLER SPINNER SECTION	6730 ROTORCRAFT SERVO SYSTEM
5532 VERTICAL STABILIZER PLATES/SKIN	6114 PROPELLER HUB SECTION	
5533 VENTRAL STRUCTURE (ON VERT. STAB)	6120 PROPELLER CONTROL SYSTEM	71 POWERPLANT
5540 RUDDER STRUCTURE	6121 PROPELLER SYNCHRONIZER SECTION	7100 POWERPLANT SYSTEM
5541 RUDDER SPAR/RIB STRUCTURE	6122 PROPELLER GOVERNOR	7110 ENGINE COWLING SYSTEM
5542 RUDDER PLATE/SKIN STRUCTURE	6123 PROPELLER FEATHERING/REVERSING	7111 COWL FLAP SYSTEM
5543 RUDDER TAB STRUCTURE	6130 PROPELLER BRAKING	7112 ENGINE AIR BAFFLE SECTION
5550 EMPENNAGE FLT. CONT. ATTACH FITTING	6140 PROPELLER INDICATING SYSTEM	7120 ENGINE MOUNT SECTION
5551 HORIZONTAL STABILIZER ATTACH FITTING		7130 ENGINE FIRESEALS
5552 ELEVATOR/TAB ATTACH FITTINGS	62 MAIN ROTOR	7160 ENGINE AIR INTAKE SYSTEM
5553 VERT. STAB. ATTACH FITTINGS	6200 MAIN ROTOR SYSTEM	7170 ENGINE DRAINS
5554 RUDDER/TAB ATTACH FITTINGS	6210 MAIN ROTOR BLADES	
	6220 MAIN ROTOR HEAD	72 TURBINE/TURBOPROP ENGINE
56 WINDOWS	6230 MAIN ROTOR MAST/SWASHPLATE	7200 ENGINE (TURBINE/TURBOPROP)
5600 WINDOW/WINDSHIELD SYSTEM	6240 MAIN ROTOR INDICATING SYSTEM	7210 TURBINE ENGINE REDUCTION GEAR
5610 FLIGHT COMPARTMENT WINDOWS		7220 TURBINE ENGINE AIR INLET SECTION
5620 PASSENGER COMPARTMENT WINDOWS	63 MAIN ROTOR DRIVE	7230 TURBINE ENGINE COMPRESSOR SECTION
5630 DOOR WINDOWS	6300 MAIN ROTOR DRIVE SYSTEM	7240 TURBINE ENGINE COMBUSTION SECTION
5640 INSPECTION WINDOWS	6310 ENGINE/TRANSMISSION COUPLING	7250 TURBINE SECTION
3040 INSPECTION WINDOWS	6320 MAIN ROTOR GEARBOX	7260 TURBINE ENGINE ACCESSORY DRIVE
57 WINGS	6321 MAIN ROTOR BRAKE	7261 TURBINE ENGINE OIL SYSTEM
	6322 ROTORCRAFT COOLING FAN SYSTEM	7270 TURBINE ENGINE BYPASS SECTION
5700 WING STRUCTURE	6330 MAIN ROTOR TRANSMISSION MOUNT	7270 TORBINE ENGINE BIT AGG GEOTION
5710 WING MAIN FRAME STRUCTURE	6340 ROTOR DRIVE INDICATING SYSTEM	73 ENGINE FUEL & CONTROL
5711 WING SPAR STRUCTURE		7300 ENGINE FUEL & CONTROL
5712 WING RIB STRUCTURE	<u>64 TAIL ROTOR</u>	7310 ENGINE FUEL DISTRIBUTION
5713 WING LONGERON/STRINGER	6400 TAIL ROTOR SYSTEM	7310 ENGINE FUEL DISTRIBUTION 7311 ENGINE FUEL-OIL COOLER
5714 WING CENTER BOX	6410 TAIL ROTOR BLADE	7311 ENGINE FUEL-OIL COOLER 7312 FUEL HEATER
5720 WING MISCELLANEOUS STRUCTURE	6420 TAIL ROTOR BEADE	7312 FUEL INJECTOR NOZZLE
5730 WING PLATES/SKINS	6440 TAIL ROTOR INDICATING SYSTEM	
5740 WING ATTACH FITTINGS	0440 TAIL ROTOR INDICATING STSTEM	7314 ENGINE FUEL PUMP
5741 WING, FUSELAGE ATTACH FITTINGS	65 TAIL ROTOR DRIVE	7320 FUEL CONTROLLING SYSTEM
5742 WING, NAC/PYLON ATTACH FITTINGS	<u> </u>	7321 FUEL CONTROL/ELECTRONIC
5743 WING, LANDING GEAR ATTACH FITTINGS	6500 TAIL ROTOR DRIVE SYSTEM	7322 FUEL CONTROL/CARBURETOR
5744 CONTROL SURFACE ATTACH FITTINGS	6510 TAIL ROTOR DRIVE SHAFT	7323 TURBINE GOVERNOR
5750 WING CONTROL SURFACE STRUCTURE	6520 TAIL ROTOR GEARBOX	7324 FUEL DIVIDER
5751 AILERON STRUCTURE	6540 TAIL ROTOR DRIVE INDICATING SYSTEM	7330 ENGINE FUEL INDICATING SYSTEM
5752 AILERON TAB STRUCTURE		7331 FUEL FLOW INDICATING
5753 TE FLAP STRUCTURE		7332 FUEL PRESSURE INDICATING
5754 LEADING EDGE DEVICE STRUCTURE		7333 FUEL FLOW SENSOR
5755 SPOILER STRUCTURE		7334 FUEL PRESSURE SENSOR

74	<u>IGNITION</u>	<u>78 E</u>	ENGINE EXHAUST	8530	RECIPROCATING ENGINE CYLINDER SECTION
7400	IGNITION SYSTEM	7800	ENGINE EXHAUST SYSTEM	8540	RECIPROCATING ENGINE REAR SECTION
7410	IGNITION POWER SUPPLY	7810	ENGINE COLLECTOR/TAILPIPE/NOZZLE	8550	RECIPROCATING ENGINE OIL SYSTEM
7411	LOW TENSION COIL	7820	ENGINE NOISE SUPPRESSOR		
7412	EXCITER	7830	THRUST REVERSER		
7413	INDUCTION VIBRATOR				
7414	MAGNETO/DISTRIBUTOR	79 I	ENGINE OIL		
7420	IGNITION HARNESS (DISTRIBUTION)	<u> </u>			
7421	SPARK PLUG/IGNITER	7900	ENGINE OIL SYSTEM (AIRFRAME)		
7430	IGNITION SWITCHING	7910	ENGINE OIL STORAGE (AIRFRAME)		
		7920	ENGINE OIL DISTRIBUTION (AIRFRAME)		
<u>75</u>	<u>AIR</u>	7921	ENGINE OIL COOLER		
7500	ENGINE BLEED AIR SYSTEM	7922	ENGINE OIL TEMP. REGULATOR		
7510	ENGINE ANTI-ICING SYSTEM	7923	OIL SHUTOFF VALVE		
7520	ENGINE COOLING SYSTEM	7930	ENGINE OIL INDICATING SYSTEM		
	COM PRESSOR BLEED CONTROL	7931	ENGINE OIL PRESSURE		
7530	COMPRESSOR BLEED CONTROL COMPRESSOR BLEED GOVERNOR	7932	ENGINE OIL QUANTITY		
7531	COMPRESSOR BLEED GOVERNOR COMPRESSOR BLEED VALVE	7933	ENGINE OIL TEMPERATURE		
7532					
7540	BLEED AIR INDICATING SYSTEM	80 9	<u>STARTING</u>		
<u>76</u>	ENGINE CONTROLS	8000	ENGINE STARTING SYSTEM		
7600	ENGINE CONTROLS	8010	ENGINE CRANKING		
7600	ENGINE CONTROLS ENGINE SYNCHRONIZING	8011	ENGINE STARTER		
7601		8012	ENGINE START VALVES/CONTROLS		
7602	MIXTURE CONTROL	0012	ENGINE OTAKT VALVEO/OONTROLO		
7603	POWER LEVER	81	TURBOCHARGING		
7620	ENGINE EMERGENCY SHUTDOWN SYSTEM		<u> </u>		
77	ENGINE INDICATING	8100	EXHAUST TURBINE SYSTEM (RECIP)		
		8110	POWER RECOVERY TURBINE (RECIP)		
7700	ENGINE INDICATING SYSTEM	8120	EXHAUST TURBOCHARGER		
7710	POWER INDICATING SYSTEM				
7711	ENGINE PRESSURE RATIO (EPR)	<u>82</u>	WATER INJECTION		
7712	ENGINE BM EP/TORQUE INDICATING	8200	WATER INJECTION SYSTEM		
7713	MANIFOLD PRESSURE (MP) INDICATING				
7714	ENGINE RPM INDICATING SYSTEM	83	ACCESSORY GEARBOXES		
7720	ENGINE TEMP. INDICATING SYSTEM	8300	ACCESSORY GEARBOXES		
7721	CYLINDER HEAD TEMP (CHT) INDICATING	0000	NOOLOGOKT GEMIDONEG		
7722	ENG. EGT/TIT INDICATING SYSTEM	8.5	RECIPROCATING ENGINE		
7730	ENGINE IGNITION ANALYZER SYSTEM				
7731	ENGINE IGNITION ANALYZER	8500	ENGINE (RECIPROCATING)		
7732	ENGINE VIBRATION ANALYZER	8510	RECIPROCATING ENGINE FRONT SECTIO		
7740	ENGINE INTEGRATED INSTRUMENT SYSTEM	8520	RECIPROCATING ENGINE POWER SECTION	N	

MECHANICS CREED

UPON MY HONOR I swear that I shall hold in sacred trust the rights and privileges conferred upon me as a certified mechanic. Knowing full well that the safety and lives of others are dependent upon my skill and judgment, I shall never knowingly subject others to risks which I would not be willing to assume for myself, or for those dear to me.

IN DISCHARGING this trust, I pledge myself never to undertake work or approve work which I feel to be beyond the limits of my knowledge; nor shall I allow any non-certificated superior to persuade me to approve aircraft or equipment as airworthy against my better judgment; nor shall I permit my judgment to be influenced by money or other personal gain; nor shall I pass as airworthy aircraft or equipment about which I am in doubt, either as a result of direct inspection or uncertainty regarding the ability of others who have worked on it to accomplish their work satisfactorily.

I REALIZE the grave responsibility which is mine as a certified airman, to exercise my judgment on the airworthiness of aircraft and equipment. I, therefore, pledge unyielding adherence to these precepts for the advancement of aviation and for the dignity of my vocation.